

12 JUL 1952

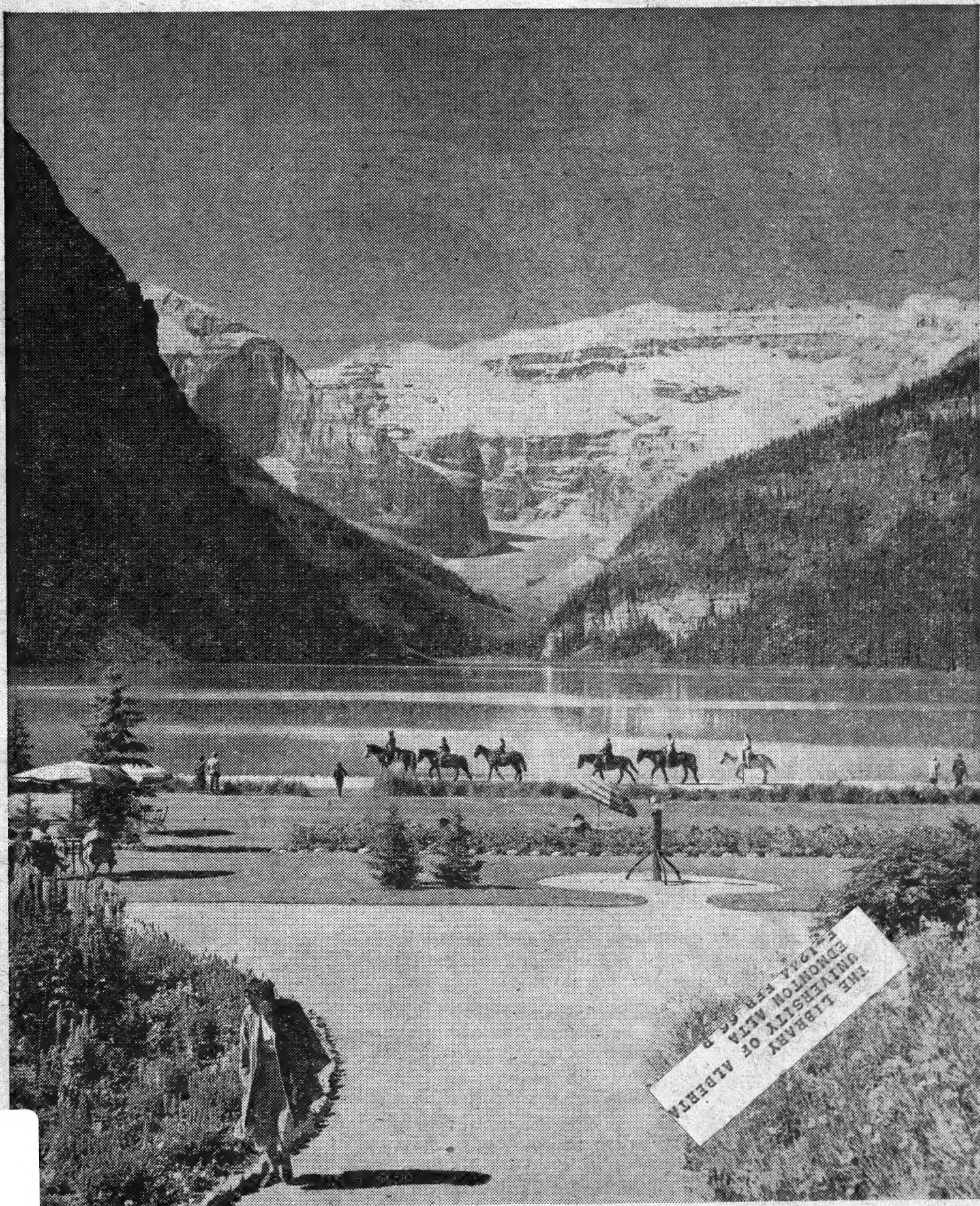
appsc J

Farm and Ranch REVIEW

JULY, 1952

APPLIED SCIENCE READING ROOM

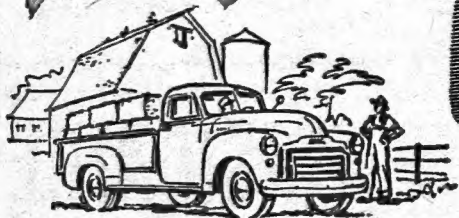
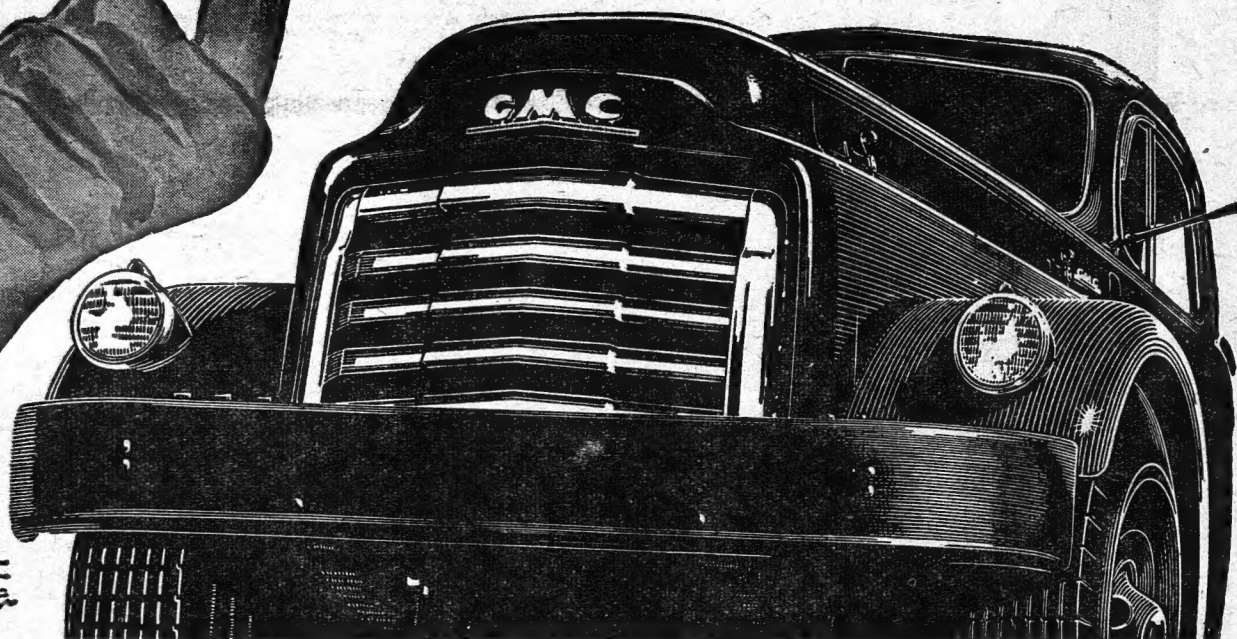
LIBRARY OF THE UNIVERSITY
OF ALBERTA



THE LIBRARY OF ALBERTA
EDMONTON ALTA. CANADA
FEB 22 1952

BARD
S
560
F225
v.48:
no.7
1952

**"At last
I've got a
real truck!"**



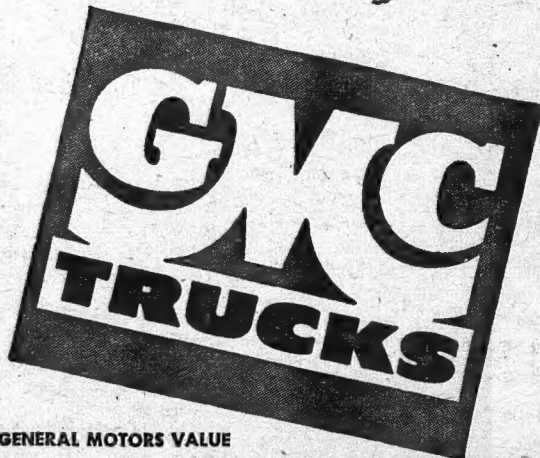
OVER THE ROAD . . . OVER THE ROUGH ... GMC can take it !

Whatever the load, whatever the job, men who really know trucks are turning more and more to GMC's for the *complete* answer to their needs. That's because GMC's are designed, built, powered and priced to be *real* trucks—to give you exactly the kind of economical performance and rugged dependability you require.

For instance, GMC gives you the widest range of truck engines in the industry—GMC valve-in-head gasoline engines from 92 to 200 H.P.—GMC exclusive two-cycle Diesels from 110 to 225 H.P.

What's more, GMC trucks combine the most modern advances in truck design with the ability to stand up to the toughest jobs. And they offer you the widest choice of models, wheelbases and GVW ratings—including two great new lines in the 19,500—45,000 GVW range.

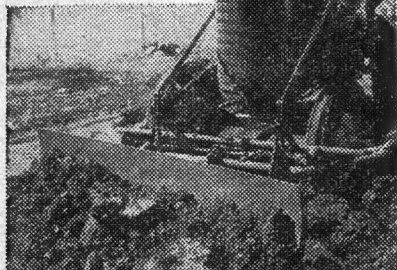
Why not let your GMC dealer recommend a GMC truck, tractor or six-wheeler with exactly the right combination of engine, axle, transmission and frame for *your* particular job. It will be a *real* truck—in every single detail!



A GENERAL MOTORS VALUE

F52-GMC-2

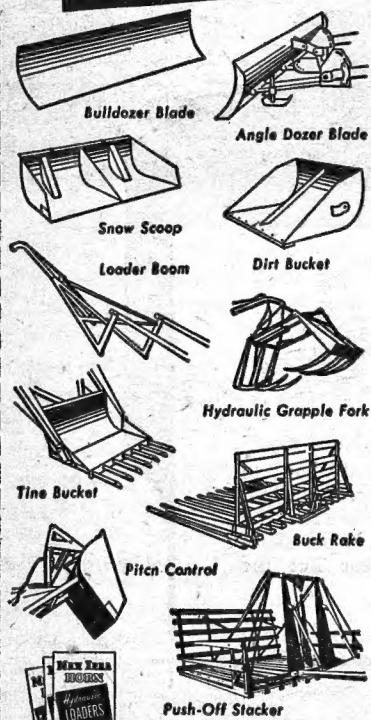
**Easy Loading...
Dozing...
Lifting...**



NEW IDEA-HORN HYDRAULIC LOADER

Three models that fit practically any tractor... 10 easy-on attachments... turn your tractor into a versatile helper for easy, quick, one-man crop and chore work. Low clearance and compact design allow working room in tight spots. Coped and welded joints... tubular steel frame provide long life of trouble-free service. Ask your NEW IDEA dealer for further details, or mail coupon below.

10 Easy-on Attachments



SEND FOR FREE
ILLUSTRATED FOLDERS:

NEW IDEA SUBSIDIARY
FARM EQUIPMENT CO. **AVCO** MANUFACTURING CORPORATION

Dept. H-356, Coldwater, Ohio

Send free literature as checked:

- ☐ NEW IDEA-HORN Loaders
- ☐ NEW IDEA-HORN Stalk Shredders
- ☐ NEW IDEA-HORN Steel Wagon Box

Name _____

Address _____

Throw Him Back!



The Farm and Ranch Review

Graphic Arts Bldg., Calgary, Alberta

Vol. XLVIII.

Founded in 1905 by Charles W. Peterson

No. 7

James H. Gray, Editor

P. Peterson, Advertising Manager

CONTENTS

	Page
Editorials	5 and 6
Dr. Morley's Sermon	10
Before You Buy Machinery	8
The Garden Page	12
Kerry Wood on Snakes	14
What Your Handwriting Reveals	16
Build a Dam without Rock	22
Letters	23
"I Saw . . ."	24
"I Remember . . ."	26
Aunt Sal	28
Louise Price Bell	29

16

Published Monthly by
Farm and Ranch Review Limited
Printed by Western Printing &
Lithographing Co. Ltd.
Graphic Arts Bldg., Calgary, Alta.
Entered as Second-class Mail
Matter at the Post Office,
Calgary, Alta.
Member of the
Audit Bureau of Circulations
EASTERN ADVERTISING OFFICES
Room 201, 7 Adelaide St. East,
Toronto, Ont.
W. H. Peirce, Representative

SUBSCRIPTION RATES: To bona-fide
farmers residing in B.C., Alta., Sask.
and Manitoba when remittance is made
direct to our office — 15c for 1 year,
25c for 2 years or 50c for 5 years.
Elsewhere in Canada, \$1.00 for 1 year.
U.S.A. and foreign, \$1.00 for 1 year.
DISPLAY ADVERTISING RATES:
Eighty cents per agate line.

Do you remember?

... The row of shaving mugs in the local barber shop, each one bearing the name of the barber's regular customers?

... The bothersome tape to which — as a child — the mittens were attached and which had to go through coat sleeves?

... The long underwear that fitted until it was washed, then stretched so in the legs that you had to fold over in order to tuck them smoothly into the top of those awful high shoes?

... The mustache cup that Grandfather always used so that his long mustache wouldn't get in his coffee, or milk?

**PASTEURIZE
AT HOME**

FOR

**Safe
MILK!**



DON'T DRINK RAW MILK... Here is the scientific way to pasteurize on the farm... no special preparation or clean up. Just pour in the milk and turn the Timer knob. All the rest is automatic.

WATERS CONLEY New Automatic HOME PASTEURIZER

WRITE FOR PARTICULARS TODAY!

CREAMERY INDUSTRY SUPPLY LTD.

1007A - 1st Street East, Calgary, Alberta

"WINDGALL?"

Here's how to get your horse back to work fast

says Gustave Troutman of Milton, N. Y.

"In 40 years of farming, I've always used Absorbine for my horses. I've found it quickly relieves strains and soreness from windgall."

There's nothing like Absorbine for lameness due to windgall, sore shoulder, similar congestive troubles. Not a "cure-all," but a time-proven help... used by many veterinarians. A stand-by over 50 years, it will not blister or remove hair. Only \$2.50 at all druggists.

W. F. Young, Inc., Lyman House, Montreal.

ABSORBINE



GIRL WANTED

as housekeeper for Company Staff House, at Ghost Plant. Apply—

CALGARY POWER LTD.,

Cochrane — Alberta

The World's Biggest Little Range

FRIGIDAIRE

"Thrifty-30" Electric Range

with thrifty, giant
full-width Oven and Cook-Master
Automatic Clock Control



Model RM-35
illustrated
\$299.75

It's only 30 inches wide yet it has the biggest oven in any household range. New Radiantube 5-speed cooking units and Cook-Master Automatic Clock Control that will let you cook a meal even while you're away from the house. See the "Thrifty-30" model RM-35 today.

See your local Frigidaire Dealer or Write

**BRUCE ROBINSON
ELECTRIC LTD.**

CALGARY, EDMONTON, LETHBRIDGE
Distributors for Alberta

Does Nickel pay taxes?



"They sure do, son. In 1951, for instance, the Nickel Company paid over 48 million dollars in income taxes. Everybody has to help pay the cost of Government. All of us pay some share in income taxes, sales taxes and many other kinds of taxes. The industries in this country do pay a large part of the cost of Government."



"Well, how much tax does Nickel pay?"
 "I guess it would be pretty hard to figure out all the taxes, but Uncle Jim, who is an accountant, told me that the Nickel Company paid \$3.30 per share in income taxes last year but the owners got only \$2.60."



CANADIAN
Nickel



"The Romance of Nickel"
 a 60 page book fully illustrated,
 will be sent free on request to anyone interested.

The International Nickel Company of Canada, Limited • 25 King Street West, Toronto

The Farm and Ranch Editorial Page...

The Tory's vote goes berserk: for Socialism and Social Credit

NEWSPAPER editors and other pundits who habitually read into election results what they wish to find in them, had themselves a field day in Saskatchewan. Yet it seems to us that the shrewdest, most accurate and unintentionally the most devastating comment of all was made by Alvin Hamilton, the Conservative leader, when he said:

"I am deeply sorry that no Progressive Conservative was able to get into the House to give a voice to the many thousands who would like to hear our point of view. Our supporters were frightened that to vote for their own candidate would mean the election of the Liberals."

These words might surely serve as a fitting epitaph on the grave of the Conservative party in the West. Here we have a once great party, which once stood for principles that appealed to great numbers of Prairie people, confessing to political bankruptcy.

What does Mr. Hamilton's statement mean? It means that the followers of the Conservative party have become so bemused and confused by the stupidity of Tory leadership that they will flock to the polls in Saskatchewan to vote Socialist! In Alberta, the Conservatives vote Social Credit and in B.C. Conservatives by the thousands were beguiled by the stray moonbeams from this minor lunacy.

Why? Because the Conservative party no longer has any semblance of a programme that will appeal to Prairie people. It has spent so much time conjuring up slick tricks with which it hoped to win elections that it has disgusted its following. In its promise of pie in the sky, it has tried to outshine the Socialists and Social Crediters. It has become the great "me, too!" party of Canada. It has tried to be all things to all men by being in favor of everything every other party is in favor of.

In its endless caravorting around the political stage, the Conservative party has done Canadian democracy a grave disservice. There ought to be a political haven some place for the Conservative-minded Canadian. There are some Canadians who heartily disagree with the speed with which the Liberal Government has been ushering in the Welfare state. There are those who think we should close down a host of government departments and reduce taxes. There are the old-fashioned "Canada Firsters" who love tariff protection. There are people who think that too many concessions have been won by organized labor.

There are a lot of people, in short, who would normally have been "Conservative." We are not arguing here that they represent a correct or even enlightened point of view. We argue that they exist and ought to have

some means of registering their viewpoint. With the complete default of the Tory party, they are left only the alternative of voting against the Liberals. To do so they must vote for Social Credit or for Socialism.

But Parliamentary democracy cannot function on any such illogical basis. Ours is a two-party system of government. Minority parties serve only to complicate the

Here's a riddle with a simple answer

AN old-time reader of the Farm and Ranch posed an interesting question in a letter to the editor in the June issue. It was concerned with the rise in costs and prices of farm implements. He quoted these figures: Since 1939 wages have increased 219.3%, raw material prices have risen 164.3%, while farm implement prices rose only 84.6%. What was the explanation?

Far be it from us to pose as experts on the economics of farm machinery production. Nor are we particularly happy about getting into arguments in which percentages are used. Such statistics can be accurate yardsticks for measuring results, or they can be woefully misleading. In this case, we assume that the former applies, that the percentages do reflect the true condition. There are a number of explanations and some of them are important.

The most important reason why the implement companies have been able to show handsome profits despite a lesser rise in prices than there has been in costs — percentage-wise — is volume. The year 1939 was still a depression year for agriculture. Prices were near the all-time low. We had not recovered from the disastrous crop failure of 1937. The implement business shared this depression and sales were low.

In order to stay in business, the implement companies and their dealers had to operate on a higher margin of profit. They had millions invested in plants and machinery. A few thousand implements had to carry the cost of depreciation, local taxes, bond interest, and the high cost of machine tools. During the war, when the companies went into armament production, they were able to modernize their factories and equipment. New techniques of production were devised. Wages naturally rose from depression levels with full employment and unionization of the plants.

During the war a great back-log of demand for farm equipment was built up. This demand was sufficient to keep the companies operating at full capacity for several years. Instead of one shift a day, some had to operate around the clock to fill orders. This meant that every unit that reached the hands of the farmer consumers carried less overhead expense, less depreciation, less advertising and selling cost.

system and in the end to destroy it. It is fundamental to Parliamentary democracy that there must be an alternative to the party in power. By its default in the western provinces, the Conservative party has nurtured the growth of third and fourth parties. It has cultivated and fertilized the provincial weed patches and then is astounded when it fails to harvest any Conservative party votes at federal elections.

These third and fourth parties that have come into power on the margin of Conservative support will not go out of business when the Conservatives want to run themselves. Alberta and Saskatchewan are proof enough of this. Yet the health of this democracy demands that the people of Canada have an alternative to the Liberal party. The only party with any possibility of providing this alternative is the Conservative party. But that possibility can never be realized until it has something more to offer the Canadian people than merely blind hatred of the Liberals.

The machine tools used in modern industry are fabulously expensive. They have to be paid for regardless of whether the factory turns out 1,000 tractors or 1,000,000 tractors. Suppose a factory invests \$1,000,000 in machine tools. If it only turns out 1,000 tractors, it must charge each tractor with \$1,000 as its share of the cost of tools. If it turns out 100,000 tractors it only has to charge \$10 to each tractor. Any company that bases its prices on the assumption that it will sell 100,000 units a year will show a staggering profit if it produces 200,000 units.

It seems to us these figures point a moral that the Farm and Ranch has been writing about for a long time — the way to get prices down is to increase production. Yet here on the Prairies, fact-blind governments and trades unions are resolutely moving in the opposite direction. Shorter and shorter work weeks are everywhere the fashion. If that is what the majority of the unions want, that is their business. But it seems folly to us to shut down our productive capacity, and force untold millions of dollars worth of plant and equipment to be idled in order to achieve it.

One of the important costs in construction, for example, is the cost of equipment. During our long hours of summer daylight, this equipment could be used at least 16 hours a day. That usage would cut overhead costs in half. Instead of being worked 100 hours a week, it is used only 40 hours. Hundreds of millions of dollars are invested in plants and office buildings. The cost of this space is charged to the things we buy. The costs operate around the clock but it is in use less than a quarter of that time.

If the majority of the non-farm population of the country decides, rightly or wrongly, that it is only going to work 30 hours a week a case can be made out for this decision. But we submit that there is no reason whatever for everybody insisting upon **working the same 30 hours**. This is economic lunacy in its purest form. It saddles upon the country a prohibitively high cost economy. If it were followed in the mass production machinery industries, the prices of everything we buy would double overnight.

Farm and Ranch Editorials

Ask a silly question and get a silly answer!

THAT just about summarizes the exchange between the Farmers' Union and Rt. Hon. C. D. Howe in connection with the domestic sales price of Canadian wheat.

The Farmers' Union delegation went down to Ottawa with a silly proposal to tie the Canadian wheat price to the farmers' cost of living and cost of production. The farmers of the West have an iron-clad case to have Canadian wheat going into domestic consumption sold at the Class 2 level rather than the I.W.A. price.

The International Wheat Agreement was the result of efforts made by producing and importing countries to arrive at a price that would be mutually satisfactory. One of the objectives of the agreement was to get away from the ruinously low prices of the thirties and at the same time discourage importing countries from the uneconomic production of wheat. Though the agreement was not completely satisfactory to either side of the bargain, it very definitely achieved its main ends.

The importing countries, the customers, in return for the lower price, made certain commitments to buy minimum quantities of wheat. The exporting countries agreed to supply maximum quantities of wheat to the contracting countries within an agreed price range. Those countries which did not wish to come into the agreement, or those that needed more wheat than they had bargained for, could and did get their supplies outside the agreement at what came to be known as the Class 2 price. It was somewhat higher than the I.W.A. price.

The wheat producers have insisted all along that the Canadian wheat price to domestic consumers should be the Class 2 and not the international price. Canadian mills were not a party to the I.W.A. They did not guarantee to take any set quantities of wheat just as no Canadian consumer has ever undertaken to eat any given quantity of bread in any week, month or year. So logically and rightly the Canadian price should be the Class 2 price.

This is a simple, straight-forward proposition. It is one that can be argued quickly and squarely and it is, moreover, one that can be argued from a practical political level. So the Farmers' Union abandons it completely in favor of a wooly, nebulous proposal to tie the price to living and production costs. A more impractical proposal has seldom been conjured up, even in these days of passionate searches for complicated formulae for saying simple things.

The Farmers' Union proposal, we repeat, was downright silly. But that does not excuse the complete unfairness of Mr. Howe's reply. As Farm and Ranch readers well know, we regard Mr. Howe as one of the great Canadians of his generation. But we do not look for perfection even in great men. One of Mr. Howe's minor imperfections, which embarrasses his staunchest friends, is his curious penchant for talking now and then with his foot in his mouth. This was such an occasion.

His statement that he would not countenance the taxing of Canadian consumers

to bonus Canadian wheat growers was a particularly bad choice of words. The wheat growers are not asking for bonuses. They are not asking that consumers be taxed. They are asking that the highest-paid industrial workers in the world, barring the Americans, pay the world price for the wheat they eat. After all, they pay the going price for everything else they buy. The farmers pay the going price for everything they buy from Canadian industry. Why should they be forced to take less in order to bonus Canadian consumers of wheat? All this is particular so in view of the fact that the cost of the wheat that goes into a loaf of consumers' bread is the least important factor in establishing the price he pays for it.

The moral in all this for the Farmers' Union ought to be plain. It is this: When you've got a good argument, stick to it; don't go beating the bushes for complexities with which to concoct an economist's formula which nobody will be able to untangle!

★

Alberta farmers subsidize their neighbors

ONE of the most popular arguments used by the advocates of Alberta's gouge-the-farmers' scheme for rural electrification is that it's wrong to "overcharge" urban users in order to "subsidize" farm customers. It's an argument that appeals mightily to the denizens of the cities and towns, despite the fact that it is transparently bogus.

But, for the sake of the argument, let's say that it is in fact a sound position. Then shouldn't it work both ways? Why should the farmers be "overcharged" for the construction of their power lines in order to "subsidize" the non-farm power users? That, in truth, is what is being done all over Alberta. The farmers are paying the total cost of bringing power lines to their farms. Because they are doing so, the lines pass in the neighborhood of hamlets and towns. The residents on the small acreages are getting power for less than a quarter of what it costs the farmers to get it. And if the farmers did not pay the full shot, these people would never get power.

Here is a case in point. One of the oldest co-operative power units in Alberta is located west of Calgary in the Springbank municipality. These farmers built their own power lines at a cost of \$750 each. Because they did, power is now being made available through this co-operative to residents on small holdings for \$125 each. In other words, the farmers are bonusing the non-farmers in order to enable them to get power.

This will create many interesting anomalies. Along the road which the line is run are farmers as well as small holders. The man who farms a quarter-section will have to pay \$750. The man who lives on 15 acres will pay \$125. It may be that in some cases it will cost more to take the power to the small holder than to the farmer.

One justification for this discrimination against the farmers is that they use more

power than the small holder. But in every other phase of economic life, it is always argued that the biggest users or best customers are entitled to buy things more cheaply than others.

We have no objection to anybody in Alberta getting power for as little as they can possibly pay. That applies to the lucky non-farmers who live along the power lines built by farmers, as well as to the farmers themselves. But we do most strenuously object to the hypocrisy of the apologists for what is light-heartedly called rural-electrification in Alberta. The fact of life in Alberta is that the construction of miles and miles of power lines by the farmers is a subsidy by the farmers of the non-farm power users of Alberta.

★

The life you save may be your son's!

IF you are an average farmer, the chances are your crop never looked better. Right now you may be starting to think about harvesting it a few weeks hence. Well, wouldn't this be a good time to just stop and think that you may not be alive to harvest this crop?

Between now and the end of harvest, scores of lives will be lost on these prairies in tractor accidents alone. Many of them will be farm boys. Many will be seriously injured in farm accidents. Many of these will also be farm boys and girls. How long is the dreadful and needless toll of injury and death going to go on before we are aroused to the danger of life on the farms?

From spring until fall our newspapers and radios report continuously on the death toll. But non-fatal accidents have become so commonplace that they are no longer news. We have a suggestion that may help in a small way to reduce this wastage of human life. Things are kind of quiet around the farm, now. So how about taking a couple of hours to do a little accident preventing. It wouldn't take much more than that to go around and tighten all the hitches, hammer nails in loose boards, repair pulleys and ropes and replace those emergency bailing wire repairs with bolts and nuts.

Farm boys love to drive tractors. They have a natural aptitude for the job. But remember in young minds familiarity often breeds contempt. What causes farm boys to have accidents with tractors? Over-confidence? Perhaps. Inexperience? Yes, but another cause may be lack of instruction and training in elementary safety rules. That means you. How about you and that boy of yours taking a little accident hazard tour of your farm? Get him really interested in safety and you can stop worrying about accidents.

You might also take him and in have a talk with your implement dealer about accidents. Chances are that if he doesn't have some useful pamphlets he'll have some good tips on accident prevention. The implement companies don't want you to get hurt with their machinery. That's not just because the dealer likes you, either. Accidents can give their equipment a bad name, even when the equipment is completely faultless. They try to make their machines as accident-proof as possible. But they have not yet succeeded in making them fool-proof. And a fool, in these days of farm mechanization, is a farmer who thinks that accidents just happen for no reason at all.

The "cat" experts give Reds top marks as "copy-cats"

CONTRARY to the current popular opinion, the Russians' keen knowledge of engineering and mechanics has been revealed probably for the first time in research on a track-type tractor which is a metric copy of a well-known U.S. manufacturer's machine.

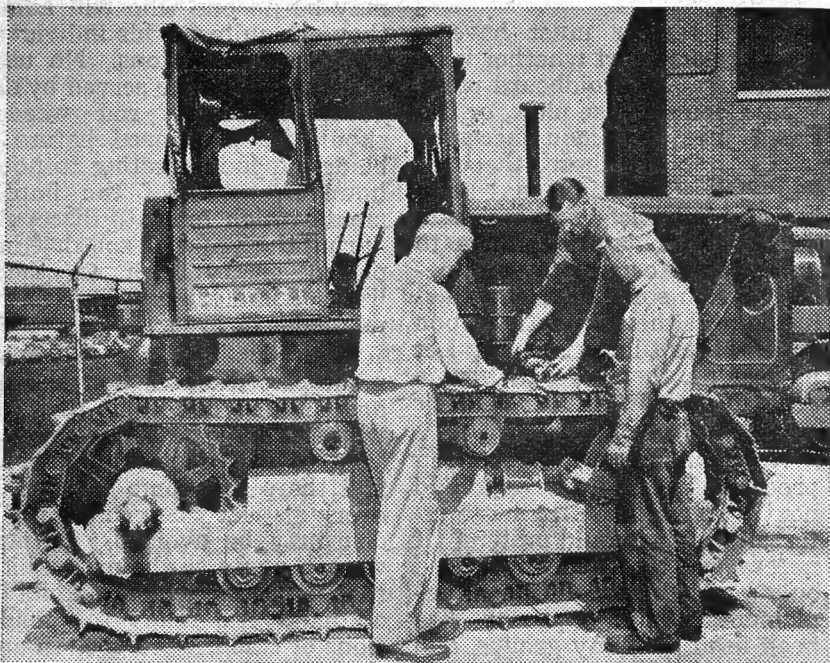
Two well-built Red tractors—the Stalinetz 80—have been given detailed examinations by the Research Department at Caterpillar Tractor Co., Peoria, Ill., and were found to be copies of Caterpillar's D7.

J. M. Davies, research director, said, "In our opinion, they are a well engineered, well manufactured copy, reflecting Russian practices, Russian machine

Caterpillar engineers believe the illegitimate cousin of their D7, Caterpillar's second largest track-type tractor, was copied from machines obtained by Russia under Lend Lease about ten years ago.

Concerning the metric dimensioning, Davies observed, "Considering all the parts which had to be changed, and also considering the tolerance and fits of each of these parts had to be changed to metric standards, this is an achievement reflecting no slight engineering skill."

He said proof that the Russians understood the principle of part interchangeability was shown by the fact that the actual Russian Diesel tractor



This is the Stalinetz 80, the tractor the Russians have made from Lend Lease equipment supplied a decade ago.

tools and the raw materials available to the Russians."

Inspection revealed these sobering facts:

1. The Reds redesigned the machine to fit more convenient metric dimensions — no mean engineering feat.

2. Appearance was unimportant. The parts are rough on the outside, but careful attention was given where part finish and close tolerance is needed. Anti-friction bearings are very good.

3. Although raw materials available differ slightly, metallurgy on the Red copy is very good.

4. The tractors probably were produced on an assembly line basis similar to Caterpillar's.

Davies said, "These machines were a great surprise to us. They are of much better quality than we had expected."

The two Red tractors were captured in a battered condition by troops in Korea. Because the pair were obvious copies of a standard Caterpillar D7, the Army's Corps of Engineers asked Caterpillar to make an examination. However, the information has been restricted until only recently.

engine operated by Caterpillar for tests was assembled from parts from two separate machines.

"The Russians know where to make parts hard and where to make them tough," Davies confided. "Hardness and toughness of their parts are about the same as we use."

He said Russian shop practices are quite different, however. Many of the finishes appear rough. From a casual inspection, their parts are not of as high quality.

"However, where close tolerances and good finishes are essential for satisfactory operation, the Russian part finish or tolerance is good," he said.

Davies said Caterpillar did not operate the complete tractor, but the researchers suspect that it would be more noisy and have a slightly shorter life than the Caterpillar machine.

He said, "We would criticize their manufacturing techniques on some parts and feel sure that the life of their machine would not be up to our standards."

"However, on the whole, we feel that it is a machine which would give satisfactory operation."

What boosts a man's stock with people like these?



HIS BOSS

Invariably, employers like the kind of man who readily accepts responsibility. And they know that this attitude is suggested by a man's ownership of life insurance. So life insurance can be a "plus" to a man in any line of work.



HIS BANKER

Because bankers and others who lend money render such useful service, their opinion of a man is important. To them, ownership of adequate life insurance is often an important factor in establishing satisfactory credit.



HIS WIFE

Many a man is rated "the best husband in the world" by his wife. But if he owns life insurance—which provides his family with financial security—he enjoys extra laurels because of his concern for their future.



HIS FRIENDS
AND
NEIGHBOURS

When they know that a man owns life insurance, they know he's trying to achieve financial independence for his family and, perhaps, for his own later years. And because he's doing his share in this way, they regard him with respect.

Today, millions of Canadians are providing security for themselves and their families—and enjoying greater prestige—through owning life insurance!

AT YOUR SERVICE!



More than 50 Canadian, British and United States life insurance companies compete actively to offer Canadians the best possible plans for providing financial protection for their families and retirement income for themselves. A trained life underwriter from any of these companies will gladly help you choose the kind and amount of life insurance that will best fit your individual needs.

THE LIFE INSURANCE COMPANIES in CANADA

"It is Good Citizenship to own Life Insurance"

MACDONALD'S BRIER

Canada's Standard Smoke

There's useful
information in this
ad...clip it!



HELP YOUR POST OFFICE HELP YOU!

1. ADDRESS YOUR MAIL CORRECTLY—Write clearly and give COMPLETE address; include Postal Zone Number in Ottawa, Montreal, Toronto, Vancouver.

2. ADVISE YOUR FRIENDS of your correct address (and zone number if applicable)—especially if you have moved to a new address. Get the habit of including your return address on top left corner of envelopes or parcels.

3. WRAP PARCELS SECURELY—tie with strong cord—and put on sufficient postage. When in doubt have your Post Office weigh parcels and letters and avoid double postage due.

Help your Post Office give you faster, better
mail service by remembering these things!



LETTER MAIL

1st Class requires:
local delivery, 3¢ for the first ounce, 1¢ for each additional ounce; out-of-town (Canada, U.S. and all other countries of North and South America, British Commonwealth, France, Spain) delivery, 4¢ for first ounce, 2¢ for each additional ounce. Air Mail (domestic), 7¢ for first ounce, 5¢ for each additional ounce. (Inquire at Post Office for airmail rates to other countries.)



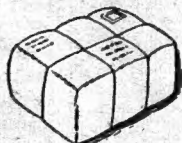
PRINTED MATTER

Cards, circulars, etc., entirely printed—when addressed to individuals by name—2¢ for the first 2 ounces, 1¢ for each additional 2 ounces. When such mail is addressed "To Householder" (not by name) it requires 1½¢ for the first 2 ounces, and 1¢ for each additional 2 ounces.



NEWSPAPERS or PERIODICALS

mailed by individuals require 2¢ for the first 4 ounces and 1¢ for each additional 4 ounces.



PARCELS

Play safe! Have your nearest Post Office weigh them. You can now send Air Parcel Post up to 25 pounds in weight. Ask about this fast air delivery service!



CANADA POST OFFICE

HON. ALGIDE CÔTÉ, Q.C., M.P.
POSTMASTER GENERAL

W. J. TURNBULL
DEPUTY POSTMASTER GENERAL

Before you buy machinery think about your soil needs

By JOSEPH PAUL

THE endless list of interesting equipment offered to the modern farmer should, for simplicity, be classified into three main groups:

1. Articles which "will pay for themselves."
2. Articles which "you cannot afford to be without."
3. The everyday tools and implements required for farming.

It has been estimated that only one farmer in a hundred can afford all of the third group that he would like to have; so these notes will be concerned only with the items required for tilling the soil.

Every farmer must have a plow of some sort whether it be a moldboard plow, What Comes a disc plow, or the First? common successor to these, the one-way disc.

Conditions may arise in any district when trash, weeds, and moisture combine to make some form of plowing necessary. In some districts plowing is still the foundation upon which other tillage is based. Let us assume, therefore, that some type of a plow is the first or basic requirement.

Now you start the interesting process of deciding what to add next. To make it even more interesting you should pretend (if necessary) that you can afford only one additional tillage implement. This approach has been used by many groups, and the choice which wins the most general approval is this: If the plow is a mold-board plow the second implement is a disc har-

row; if the plow is a disc plow or one-way the second implement should be a duck-foot cultivator.

Now assuming that your finances have improved and keep on improving, the most general agreement indicates you should add to your tillage implements in this order: Disc plow or one-way, duckfoot cultivator, diamond harrows, rod weeder, blade. Or, mold-board plow, disc harrow, diamond harrows, duck-foot cultivator, rod weeder.

Of course these lists should provoke a lot of argument, and, while they may

There Are No come close to Bad Implements suiting every-

body, there may be no one who will admit they are quite for his individual ideas and conditions. No useful purpose can be served by arguing that the rod weeder should be purchased before a blade. It is interesting to note, however, some of the implements which fell into disrepute during the years of soil drifting placed pretty high on these lists. Some explanation of this might be in order.

Each list has a disc implement placed either first or second. There are some districts where it may be seldom necessary to use a disc implement, and there are some seasons in every district when the use of a disc may be avoided. Perhaps we can agree to the proposition that a disc implement should be on hand and ready for conditions of trash, weed growth and moisture which make the use of other implements undesirable or impossible. There is less damage done by working moist



NATIONAL FARM
SAFETY WEEK
JULY 20-26, 1952

A guy who leaves
Guards off of gears,
Hasn't much
Between the ears!



NATIONAL SAFETY COUNCIL

fields with a disc than is done by working dry fields with other implements.

Diamond or drag harrows were pretty generally condemned during the '30's as a prime cause of soil drifting. In some cases they were still being used to break up dry clods to form the dust mulch which had proved to be such an effective protection against evaporation. It is not likely that drag harrows ever will be so badly used again. On some farms the drag harrow is seldom used, but it does fill a need at times for packing down freshly disturbed, moist soil, or for breaking a thin crust over moist ground. Under the right conditions it can prevent, rather than cause, soil drifting.

The main argument with the lists presented above, will be that they omit certain implements which some careful and observant operators have found very much to their liking. These could be added without argument if finances permit. But the important thing is the establishment of a line of basic implements which are essential to any programme of farming which will meet the varying requirements of each season.

Plenty of attention is being given to the matter of matching implements to the power of the tractor; Fit the Machinery the power of to the Land the tractor;

But the problem of matching the whole outfit to the land has not been so carefully considered. The one-way disc has always been pretty tricky on hillsides. The tendency toward wider swaths with these machines has definite limits where fields are rolling. If more acres are to be handled it is clear that good tillage will require an extra outfit rather than a wider swath. Or, if a farm must be divided into small fields of irregular shapes, the operator must choose equipment of a size to suit the land.

The cost of using big machines comes terribly high when they are the cause of delaying spring work while low spots are drying out; especially when work on the main part of the field is delayed past the time when it was in the best condition for tillage and seeding. Similarly a poor job on uneven fields is too big a price to pay for the speed obtained by ever-increasing size.

Now look back at the lists of tillage implements we have been considering. Just think how often the purchase of some of these items is postponed in favor of equipment for seeding, harvesting, or transportation; to say nothing of the selection of articles from the first two classes mentioned in the introduction.

The basic job of farming is tilling the soil. This simple fact has not been changed in any way by the so-called revolutionary de-

velopments of the last few years. Postponing the purchase of the essential tools in favor of things which are unnecessary, is like selling your best heifer to the butcher. But the ancients had a clearer way of explaining these things.

Pliny, who lived from the year 23 to 79, wrote a "Natural History" in which he records this story: "... Chresimus, a freedman, having found himself able, from a very small piece of land, to raise far more abundant harvests than his neighbors could from the largest farms, became the object of ... jealousy ... and was accordingly accused of enticing away the crops of others by the practice of sorcery ... Apprehensive of being condemned, he had all his implements of husbandry brought into the Forum, together with his farm servants, robust, well conditioned, and well clad people, ... The iron tools were of first-rate quality, the mattocks were stout and strong, the plow shares ponderous and substantial, the oxen sleek and in prime condition ... "Here Roman citizens," said he, "are my implements of magic; but it is impossible for me to exhibit ... those midnight toils of mine, those early watchings, those sweats, and those fatigues." Upon this, by the unanimous voice of the people, he was immediately acquitted."

Canadian quiz

By GEOFFREY SHAWCROSS

1. Which Canadians discovered the Mississippi?
2. Where is the smallest international bridge in the world?
3. What is the fresh-water area of Canada?
4. Which was the first of the great railway systems to be owned and run by the Canadian Government?
5. When was that railway opened to traffic?
6. What is the area of the Northwest Territories?
7. When was such territory admitted to Confederation?
8. Who was the first white man to cross Canada from coast to coast?
9. What noted Air Force figure died last March?
10. With what great undertaking did he play a leading part in World War II?

(Answers on page 19)



"On your salary we don't need a cart."

TRACTION? YES!

LONG LIFE? YES!

ECONOMY? YES!

DOMINION ROYAL FARM TIRES

GRIP MASTER

DOMINION ROYAL

GRIP MASTER

ALL-SOIL ... ALL-PURPOSE

TRACTOR TIRES

FD52

SEE YOUR DOMINION ROYAL FARM TIRE DEALER

KEEP YOUR

CHICKS and POULTS g-r-o-w-i-n-g

QUICKER, BETTER, MORE PROFITABLY
WITH GUARANTEED

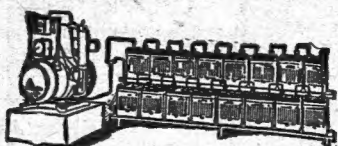
"VIGOR"

CHICK GROWING SUPPLEMENT
AND
TURKEY GROWING SUPPLEMENT

Make sure of profitable returns by using good feed now.

MANUFACTURED BY

BURNS & CO. LIMITED
FEED DIVISION



DELCO LIGHT
PARTS AND BATTERIES

Specialists in all types of farm
Electrical Equipment and Supplies.

BRUCE ROBINSON
ELECTRIC LTD.

CALGARY — EDMONTON
LETHBRIDGE

Since 1916 — 35 years in Alberta.

"Could I keep working?"

*A Serious Question for One
Suffering from Arthritic Pain*

"I suffered a great deal from such pain in my legs, knees and other joints, that it was hard to do my work," writes Miss Thelma Johnson, Picton, Ont. "I was having so much trouble, I wondered if I would be able to continue at my job. Then I learned about T-R-C's. What a fortunate day that was, for I have had the very best sort of relief. I wouldn't want to be without T-R-C's in the house."

Don't suffer needlessly from relentless arthritic pain. Get quick relief from dull, wearisome aches caused by Arthritic, Rheumatic, Neuritic, Sciatic pain, Lumbago or Neuralgia. Start taking Templeton's T-R-C's today. 65c, \$1.35 at drug counters. T-839

FARMERS...

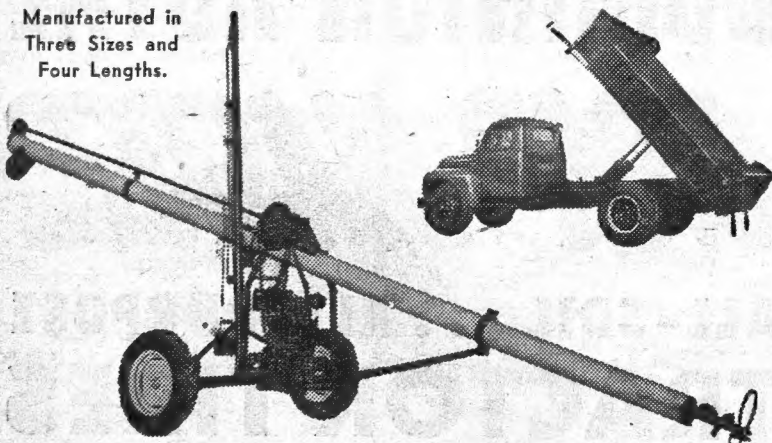
Handle Your Grain THE RENN WAY

WITH THE

RENN PORTABLE GRAIN
LOADERS

RENN HYDRAULIC GRAIN
AND HOISTS FOR ALL SIZE
TRUCKS

Manufactured in
Three Sizes and
Four Lengths.



INQUIRE TODAY FOR COMPLETE INFORMATION

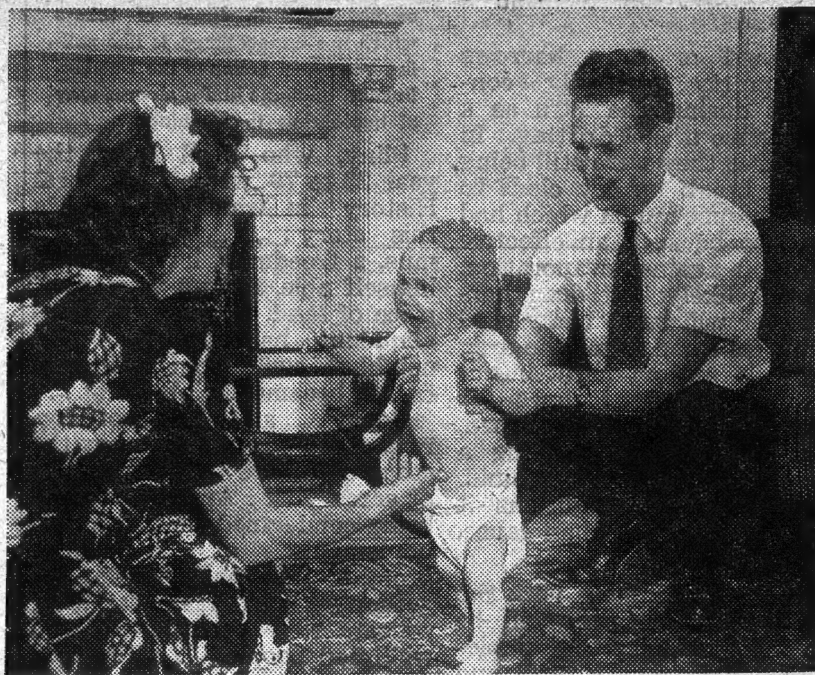
From Dept. F

PERFECTION MACHINE WORKS LTD.

CALGARY

ALBERTA

Taking the First Step



National Film Board Photo.

You are most yourself in your finest hours

By FRANK S. MORLEY, Ph.D., B.D.

MY theme is the story of Jesus and His disciples on the Mount of Transfiguration, a story which you will find in the Gospels of Matthew, Mark and Luke.

Sir Colin Campbell used to encourage his men by telling them, "Highlanders, remember your mountains!" Peter forgot the Mount of Transfiguration. If he had not he never would have denied Jesus.

That is the tragedy of all of us. We forget our mountains. Everyone has moments when he lives on a mountain top, when he dreams great dreams and life is filled with purpose. Then down in the dust and business of the street, the glory of the mountain seems like the veriest illusion. In the Drumstochty story Margaret Howe exhorts Lily Grant, "Dinna be ashamed of your dreams, Lily; they'll come true some day, for we cannot think better than God will dae."

The Mount of Transfiguration revealed the nature of the future life. The other world is very near this world, separated only by a thin veil. In the next life we keep our personalities, so that Moses and Elias can be recognized by the disciples.

Do you think it strange that the first reaction of the disciples to the vision was fear? Most of us are afraid. A dictionary lists seventy-five phobias including acrophobia — fear of height, claustrophobia — fear of closed places, agoraphobia — fear of open places, pathophobia — fear of disease, ereuthophobia — fear of blushing (we need not worry about this one!) and ergophobia — fear of work. There is no more destructive or prevalent fear today than ergophobia. Fear of work will destroy our democracy. The Commandment

of God says, "Six days shalt thou labour." We just cannot build our country without work. We can't keep up with other nations.

Fear of the New

The most common fear, however, is neophobia — fear of the new. The disciples were afraid as all of us are afraid of new things. Mankind has always been afraid of the unusual. A headline in a Philadelphia paper read, "Prehistoric Skulls Sit At Council Table." The news report revealed that a meeting of anthropologists had made plaster casts of the Neanderthal Man and the Java Man and had placed them on the table. Sometimes I think it would be possible at every council table today, whether Church, politicians, or economists, to put that headline over their meeting: "Prehistoric Skulls Sit At Council Table."

Their next reaction was also typical. "Let us build here," said Peter. Mankind has always tried to stop civilization. We do not want to advance. So the Church tried to stifle Galilee, but he rose from his knees saying, "But still it moves." So Judge Jeffreys and his fellows tried to stop the growth of Labour Unions, but they grew despite opposition. Sometimes I think there are just two kinds of people in the world — those who live on their heels and those who live on their toes. Those who live on their heels are always dragging back, resisting advance, and those who live on tiptoe are always looking into the future.

Peter wanted to build three tabernacles, one for Jesus, one for Moses, and one for Elias. Thus he showed that he did not understand Jesus as merely one of the prophets. Jesus claimed to be "more than a prophet." Prophets were lonely men.

They came to condemn the world, to recall mankind to the old ways, to proclaim the vengeance of the Lord, and to demand repentance before you went to Hell. Jesus came to redeem, not condemn, to call men to a new life, to proclaim not the curse of God but the beatitudes, the evangel — the good news — and to urge men to "repent for the Kingdom of Heaven (not Hell) is at hand."

"When they were awake," Luke says, "they saw His glory." They went to sleep! A driver in the United States was fined for sleeping at the wheel and causing an accident. Quite right! We, too, go to sleep at critical moments. What fools we are! Asleep before the most glorious events in the world's history! Oh, we are awake to the glories of other things. We break the second commandment constantly with our worship of eating and recreation and making money. We serve the gods of wealth, comfort, power, and pleasure. We have become materialists. No, even worse, secularists. God is written out of the world. We deny the reality of spiritual truth.

That is why we have so easily struck "Dominion" out of the name of our country. Do you know how it came to be there? It was originally from the Bible, "He shall have Dominion from sea to sea." True, it was not demanded by the British North America Act, although the opening paragraphs make several references to "the Dominion." But by tradition, by usage, by constant reference in our laws and statutes, by adoption at the time of Confederation, by reference in such documents as the Statute of Westminster, as well as by the vision of the Fathers of Confederation, Dominion is part of our heritage and name. Why? Not to show subordination. On the contrary. "Dominion status" became a mark of freedom. To show the idealism of our union. We have lost such idealism. We sneer at such thinking as the mere language of a preacher.

Well, it wasn't preachers who put it into our name. It was put there by great statesmen, greater than most of the politicians who are taking it out. But we are materialists and any idealism, anything of spiritual quality, is merely the subject for a sneer. So easily we let our inheritance go.

The disciples saw "His Glory." Never has history seen such glory as His! He was unique. Socrates was a martyr, but we don't worship Socrates. When Queen Victoria was crowned the Hallelujah Chorus was played and she was told she might remain seated. But she rose, holding her crown in her hands with bowed head, as the great Chorus saluted the "King of Kings and Lord of Lords." A missionary to the Zulus said his task was to bring "a more potent magic than the witch doctors." That is the Christian task everywhere.

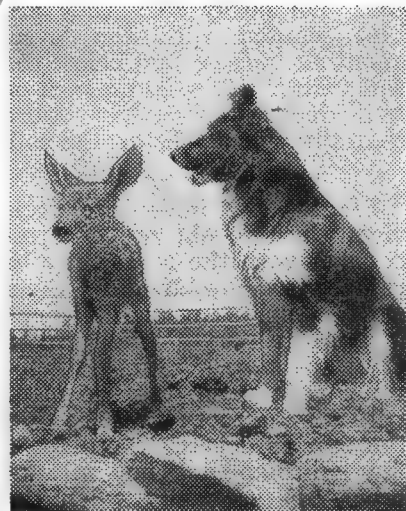
The Mount of Transfiguration illustrates the power of prayer. Martin Luther prayed all night before the Diet of Worms. Gladstone found his power in prayer. You, too, will find prayer your greatest power. An old lady was asked how she had enjoyed her first plane trip. "Very well, thank you, but I didn't put my whole weight down." Few of us do put our whole weight down in prayer. On the mountain Jesus put His whole weight upon God. He went up into the Mount disgusted with the world; He returned to die for the world. He found power.

Yes, He returned to the world. That is the purpose of prayer. The monastic ideal is not the New Testament ideal of sainthood. Raphael's painting shows the glory of the mountain and the poor demented boy and his anguished father at the foot with the helpless disciples. Lanier wrote a poem about it: "Downward the voices of Duty call — Downward to toil and be mixed with the main." It was on that mountain that Jesus planned for His own death. He knew if He returned He must die. It was part of God's plan.

People talk about roads to radiant living. I know only one road. It is feeling that you are being used for a purpose of Almighty God. As we say in the catechism, "Man's chief end is to glorify God and to enjoy Him forever." Sorrow and tragedy come to every life. You can only be victorious in the confidence that God is using your life even in the things you think grim tragedy.

This is the lesson of the Cross. Victory not only in suffering, but victory through suffering. Long years ago, on the darkest night of the year, God raised a lonely Cross against a dark and gloomy sky and ever since that time men's eyes have turned to it and found peace and strength. They have believed that if they trusted God utterly, if they gave their lives entirely to Him, He would not forsake them. He would bring them through. This is the promise of the Mount of Transfiguration.

Pals



Mildred Wardlow, Box 522, Kelowna, B.C., sent us this picture of a deer and a dog getting along fine together.

Now the McCormick FARMALL SUPER M

SERIES

The easiest handling, the biggest capacity, the most powerful 4-row, all-purpose tractor built — that's the Farmall Super M!



21 per cent more power

Super M's husky new valve-in-head IH engine delivers 47½ maximum belt horsepower.* There's ample engine power and drawbar pull for four standard moldboard plow bottoms. You can do 4 days plowing in only 3!

Higher field speeds

The great power of the Super M is teamed with fields of 2.7, 3.8, 5, and 6.8 mph. and a road speed of 16.8 mph. You do many of your field jobs up to twice as fast.

Super-easy handling

Positive-acting, double-disc brakes give you sure, easy control of Super M's great power. Steering has been made easier still. The two-way hydraulic-controlled, foam rubber seat assures a comfortable ride. With a Super M you'll do more work, more comfortably, than with any other all-purpose tractor you can buy!

* Manufacturer's rating.

and the McCormick Standard SUPER-W-6

SERIES

The NEW McCormick Super W-6's rugged engine delivers 21% more power than any other tractor in its class. Its faster field speeds enable you to plow up to 20 acres of tough sod a day, or tandem disk up to 50 acres a day. You ride above the dust and heat in armchair comfort in the Super W-6's adjustable foam rubber seat. Handling the McCormick Super W-6 is made easier by the self-energizing disc brakes. See the McCormick Super W-6 — latest addition to the famous McCormick line of standard tractors.

YOUR IH DEALER is the man to see for complete information on the new McCormick Super W-6... and the new McCormick Farmall Super M.



INTERNATIONAL HARVESTER
INTERNATIONAL HARVESTER COMPANY OF CANADA LIMITED, HAMILTON, ONTARIO

CAT-TEX

SOLES
outwear leather
more than
2 fold!

**MEN
PAST
40**

Men afflicted with Bladder Trouble, Getting Up Nights, Pains in Back, Hips, Legs, Nervousness, Dizziness, Physical Inability and General Impotency send for our amazing **FREE BOOK** that tells how you may correct these conditions and have new health and Zest in Life. Write today. No Obligation. Excelsior Institute, Dept. 3901, Excelsior Springs, Mo.



C. L. UPPER

The De Laval Company Limited, Peterborough, Ontario, formerly a subsidiary of The De Laval Separator Company, New York, announces the election of Mr. C. L. Upper as president.

This is the first time in the history of the Canadian company that a Canadian has been named to head it. It is a personal tribute to Mr. Upper and exemplifies the confidence the Board of Directors has placed in him and in Canada.

Mr. Upper has been associated with The De Laval Company Limited since 1935. He was Ontario sales manager, general sales manager, and then general manager before his election to vice-president in 1944. Mr. Upper is well known in the manufacturing and dairy industries across Canada.

Two other Canadians move into new positions with the company: Mr. A. Purdon becomes vice-president, and Mr. J. W. Harris, assistant controller.

Now all Canadian, The De Laval Company Limited, Peterborough, is part of a world-wide organization which originated the cream separator. Under Mr. Upper's direction, operations have been broadened in Canada in the production of milking equipment, dairy, creamery, cheese plant equipment and more recently all types of equipment required for the processing of milk from the cow to the finished product.

Further, De Laval Industrial applications embrace a very diversified field, including all types of oil purification for Land and Marine applications and a wide range of other equipment where the (industrial) use of centrifugal force is beneficial in quality production as well as savings in many industries.

Summer Fun



Mrs. Ethel Kerns of Wimborne won \$5 for this shot of the children cooling off on a hot June day.

Start planning right now for lots of Peonies next year

By H. F. HARP

THE season of Peony bloom in Prairie gardens generally lasts over a period of three to four weeks but this year, due to the unseasonable weather of April, the plants are flowering a full two weeks ahead of a normal season and indications are that the blooming season will be somewhat shorter than usual.

Enthusiastic gardeners have called the peony the "Rose of the North" — certain it is that no other perennial plant gives better returns than peonies. They are unsurpassed for garden decoration and cut flowers, free from insect pests and reasonably free from disease. They are among the oldest perennial plants grown, many of the popular varieties are a hundred years old.

The Chinese grew them more than a thousand years ago as food and medicine plants.

In the early seventeenth century the English apothecary used the seed of the peony to compound a prescription said to give relief to sufferers of "nightmare". An English gardener, writing in the year 1629, said of Peonies: "They are endeavored in our gardens where we cherish them for their goodly flowers as well as for their physical virtues."

Culture of Peonies

Peonies have a preference for remaining undisturbed for a number of years, so that extra care should be given the preparation of the soil. The chosen site had best be clear of trees or hedges. Peonies that have to compete with these subjects for soil moisture and plant food will not fare too well.

The soil should be deeply dug adding a generous quantity of well rotted barnyard manure; if not available, a dressing of am-

monium phosphate (11-48-0), 4 ozs. per sq. yd.

Holes large enough to hold the roots comfortably and about eighteen inches deep should be taken out. The soil at the base of the hole should be loosened up with the garden fork, and a shovelful of rotted manure worked in. On no account should manure be allowed in contact with the peony roots.

Give Them Room

Where space is limited peonies may be set out two and a half feet apart each way, otherwise they are spaced three and a half to four feet. Mid-September is the best time for planting and the sooner the plants are set out after this date, the better. Spring planting is satisfactory if the stock is quite dormant.

Nurserymen lift peonies in the fall and store them in a root cellar ready for sending out in the spring. They should be planted as soon as the ground is dry enough to walk on. Depth of planting will depend on the soil. On heavy soils they are best planted with the 'eyes' about an inch or two below the soil. On sandy soils an inch or two deeper but never more than three inches below the soil.

Reviving Old Plants

Plants that have lost their vigor through old age or competition with the roots may be rejuvenated by dividing them and transplanting the divisions in another part of the garden. Choose a sunny day in September carefully digging the plant with all the roots intact. Allow the sun to dry the roots for a few hours so that they will not break off so easily when the plant is divided. Most of the soil can now be readily shaken from the roots and with the aid of a strong knife the old plant

is divided in portions having three to five eyes each. Roots having no eyes will not grow.

Record Their Names

A record of the names of the varieties should be kept in a garden book as knowledge of a variety's correct name adds interest and enjoyment.

Experienced peony growers will not expect typical blooms from newly set plants. Flower buds had best be picked off the first year. A good deal of patience is required before some varieties come up to catalogue descriptions.

Disease and Insect Pests

Aphids (Green Fly) are seldom seen on peony plants but where they do show up control is easily obtained by using a teaspoonful of Black Leaf 40 per gallon of soapy water, thoroughly wetting the foliage.

In periods of very dry weather Thrips will suck the juices from the petals. A good spraying with tap water under pressure will give good control.

Ants

Peony growers are often alarmed to see ants scurrying over their peony buds. They are seeking the sweet nectar exuded by the opening flowers. Unless ants have made their home in the root of the plant there is no cause for alarm. The best means of eradicating them from the roots of plants is to spread a few teaspoonsful of Calcium Cyanide 'Cyanogas' about the base of the infested plant covering immediately with plenty of wet sacking. Allow twenty-four hours before removing the sacking. A second dose is sometimes necessary to completely wipe them out.

Peony Blight, (Botrytis)

Any wilting of the stems should be viewed with suspicion. Examination of wilted stems will show browning and decay at ground level if Blight is present. No time should be lost in cutting diseased stems an inch or so below the soil and carefully burning them.

Copper fungicides such as 'Perenox' and 'Fermate' have given fair control. The first application should be made when plants are a few inches high, a second when buds are first seen.

A covering of brush or corn stalks should be placed over the plants that have been cut down in order to trap snow for their winter comfort.

These varieties are able to withstand considerable abuse. They should be included in every prairie garden collection.

Pinks —

Mons, Jules Elie.
Sarah Bernhardt.
Lamartine.

Whites —

Festiva Maxima
La Lorraine
Boule de Neige
Couronne d'or

Reds —

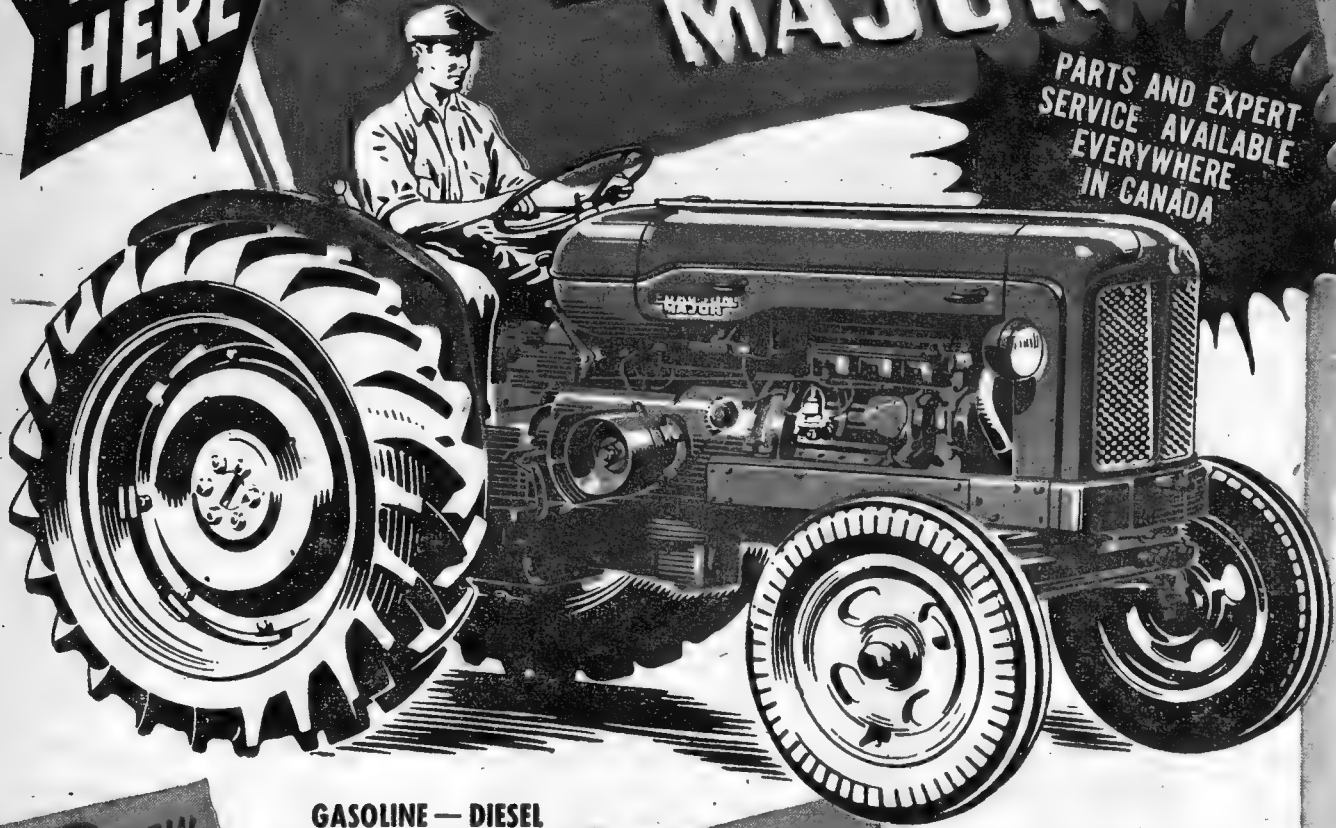
Mary Brand
Karl Rosenfield
Felix Crousse
Grover Cleveland

STILL CANADA'S LOWEST PRICED 3-4 FLOW TRACTORS

IT'S
HERE

the Sensational New FORDSON MAJOR

PARTS AND EXPERT
SERVICE AVAILABLE
EVERYWHERE
IN CANADA



CHECK... COMPARE THESE FEATURES

- Advanced Styling
- 4-wheel Design
- Low Centre of Gravity
- Adequate Ground Clearance
- Optional Front & Rear Tire Sizes
- Adjustable Wheel Tracks
- All-Purpose, Half-Track and Full-Track Models
- Easy Mounting of Special Equipment
- "Feather-Light" Steering
- Tool Box (Complete Tool Kit)
- Powerful Steering Brakes
- Radiator Shutters controlled from driver's seat
- Full 3-4 Plow Power
- Still Lowest Priced
- Designed and Engineered for Canadian Farming
- New Overhead Valve Engines
- Choice of 2 New Engines Gasoline—Diesel
- Now! A Low-Priced Diesel
- Optional Exhaust Positions
- Greater Operating Economy
- Oil Bath Air Cleaner
- Spring Mounted Radiator
- Pressure Oil System
- Cartridge-Type Oil Filter
- Removable Wet Cylinder Sleeves
- Aluminum Pistons
- 5 Bearing Crankshaft
- 15 Gal. Fuel Tank with safety reserve
- Centrifugal & Vacuum Operated Distributor
- Pressurized Cooling System
- 12 Volt Electrical System
- Electric Starting
- Full Lighting System
- Electric Horn
- High - Low Beam Headlights
- Battery Readily Accessible & Heat Protected
- 2-Speed Belt Pulley
- P.T.O. and Safety Guard
- New, Built-In Hydraulic System
- Automatic Safety Clutch Release
- 3-Point Implement Linkage
- Turnbuckle Check Chains
- 6-Speed Transmission 6 Forward—2 Reverse
- Swinging Drawbar with Vertical Adjustment

2 NEW
O.H.V.
ENGINES

GASOLINE — DIESEL

The New Fordson Major offers a choice of two entirely new Overhead Valve 4-cylinder engines giving extra power with maximum economy. Use of many parts common to both engines reduces initial cost, simplifies service and cuts costs on spare parts.

QUALITY
CONSTRUCTION

Compare the New Fordson Major's quality construction. See the attention paid to even the smallest detail of design and finish. Such extras mean added owner satisfaction and longer tractor life.

IMPROVED
BUILT-IN
HYDRAULIC
SYSTEM

Driven by the power take-off shaft, the New Fordson Major gear-type hydraulic pump exerts a pressure of 2000 lbs. The hydraulic control is conveniently located on the right-hand side of the driver for quick, easy operation.

6 SPEED
TRANSMISSION

6 FORWARD SPEEDS 2 REVERSE SPEEDS

The new six-speed "constant mesh" transmission gives the right gear for every job, saving time, fuel and engine wear. Extra sturdy clutch will withstand heavy shock loads, yet clutch engagement is exceptionally light and easy.

"Feather-
Light"
STEERING

The New Fordson Major is equipped with recirculatory "Ball Type" steering (24 to 1 ratio) giving feather-light, positive control under all conditions.

DRIVER
COMFORT
AND
SAFETY

Comfortable, deep pan driver's seat, large step plates, low centre of gravity, "feather-light" steering, grouped controls, powerful brakes, all contribute to the operator's comfort and safety.



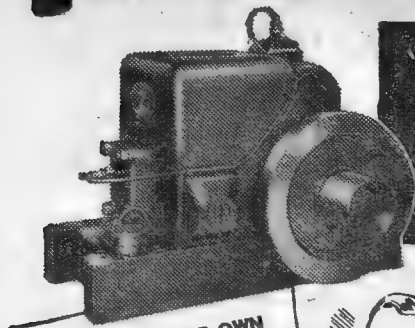
See Your Ford Tractor Dealer—Ask For A Demonstration

THE
NEW

FORDSON MAJOR



Fairbanks-Morse



"Z" ENGINES
give dependable
low cost POWER

WHY YOU SHOULD OWN
AN F-M "Z" ENGINE

Self Oiling
Fully Enclosed
Water Cooled
Throttling Governor
High Tension Magneto
Models from 2 to 28
horsepower



These sturdy, powerful engines provide power for dozens of jobs about the farm . . . pumping, running machines, saws, hoists, etc. They require hardly any attention and operate economically on gasoline, tractor fuel, kerosene, or natural gas. Ask your local F-M Dealer, or write your nearest branch for full details.

THE CANADIAN FAIRBANKS-MORSE CO. LIMITED
Saint John Montreal Toronto Winnipeg Edmonton Vancouver



**RATS
COST
MONEY!**

BUT the best weapon in the war on rats is Fairview Warfarin! And this rat killer is now in convenient form—ready to use! Machine-mixed with special bait that does not become rancid. At your drug, hardware or general store or

IF NOT AVAILABLE, ORDER BY MAIL

Ready-to-use

Fairview WARFARIN
(Postage paid) only 89c lb.
Concentrate

Fairview WARFARIN
(Postage paid) only \$1.75 ¼-lb.

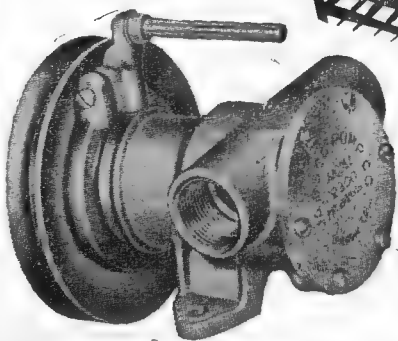
NEW!
READY-TO-USE
Fairview
WARFARIN

FAIRVIEW CHEMICAL CO. LTD.

1855 ST. JOHN

REGINA

NOW EVEN BETTER
THE **NEW**
JABSCO
PUMP &
CLUTCH
UNIT



One of the handiest pieces of equipment a farmer can have. Handles all types of pumping jobs. Only moving part is flexible rubber impeller — outlasts metal gear type many times over. The addition of the clutch makes the JABSCO Pump even more convenient. Check these features and see why so many farmers say JABSCO is the better pump buy —

1. Self priming.
2. One moving part.
3. Gearless.
4. Trouble Free.
5. Adaptable.
6. Friction cone clutch.
7. Sealed, prelubricated bearings.
8. Bronze construction.

AVAILABLE FROM YOUR LOCAL DEALER
CANADIAN DISTRIBUTORS:

LIPSETT ENGINE & MFG. CO. LTD.

1315 Powell Street

VANCOUVER

BRITISH COLUMBIA

The world's zaniest sport— Hunting rattlers with arrows!

By KERRY WOOD

MY supper was spoiled last night by a couple of friends who fetched a dead snake for me to see. It was nearly five feet long and round two inches thick, with the usual serpentine head of evil outline that didn't help my appetite at all. A diamond pattern was etched on back and sides, making us wonder if it were a Diamond-backed Rattler. But the tail was small and pointed, with no rattle growth in evidence.

We don't get snakes of this size and type in our home district at Red Deer, yet the reptile had been killed in our town next the railway freight sheds. The theory is that the poor creature was transplanted from its home area via a box car, slithering out at our town to meet up with some stick-armed small boys. Despite much searching through encyclopedias and general reference books, we couldn't identify the reptile, though I have a hunch it was a harmless Bull Snake from the Medicine Hat country.

The Shudders

While I know that most snakes are beneficial creatures, I cannot help an involuntary shudder when I first sight one. We have only the harmless Garter Snakes around my home district, and during the last dozen years these pretty little reptiles are seldom seen. If you walk the edge of marshes or stream banks, you occasionally startle one into view; at such times I have tried to watch them by means of binoculars to learn something of their habits and have seen them devour mice and insects. On the debit side, such snakes occasionally find and eat the fledglings of beneficial ground-nesting birds. Most authorities on reptiles give them a good report as useful creatures.

Few Bites

Naturally, poisonous serpents are not liked by humankind. We have Prairie Rattlesnakes at various parts of south-eastern Alberta and south-western Saskatchewan, while rattlers are also found in the lower Okanagan country. People who live in rattler districts tell me that the snakes are beneficial, as they prey mostly on ground squirrels and gophers. But any time a rattler is sighted, the hue and cry is raised and men seek to destroy the snake on the spot. Farmers dislike rattlers because of the threat to livestock and the danger to their children. In actual fact, few people are ever bitten by poisonous snakes in Western Canada, because the reptiles avoid contact with humans whenever possible. Accidents do happen at times, but there have been no human deaths as result of



This is Bruce McKenzie of Medicine Hat with a handful of rattlers he and his brother, Bill, shot with arrows.

snake-bite in Alberta for many years.

As a boy, I nearly stepped on a large rattler in the Lethbridge sand dunes one time, and still remember that the snake was much more frightened than I was — which is saying a great deal! Then, as a lad of twelve and while hunting rabbits with a bow'n'arrow, I walked the frozen bed of a creek in the Red Deer district one warm October day and suddenly sighted dozens of snakes. It was near a railway embankment, where large slabs of rock had been piled to prevent water erosion during creek floods. There were many crevices and holes behind those slabs, and at that moment, something like six dozen Garter snakes were sunning themselves on the rocks next the creek. You can imagine the feelings of a boy confronted by that crawly sight. It was a hibernation gathering of the snake clan, where they'd spend the winter in holes and crannies among the rocks, but on that warm day they were enjoying one final bask in the sunshine before winter.

Since then, friends have told of finding concentrations of Garter Snakes totalling several hundred reptiles, while policeman Bill McKenzie of Medicine Hat reports that rattlesnakes gather by the score and hundred to hibernate on the banks of the South Saskatchewan River near that city. Snakes of the Garter and Rattler family are sometimes found in massed balls during the hibernation period, as many as five hundred snakes entwined in a writhing mass lying in a large cave. Cattle-men finding such snaky concen-

trations have been known to set off a charge of dynamite to destroy the reptiles.

Dangerous Sport

Incidentally, Bill McKenzie and his brother Bruce and some daring friends practise what must be one of the most dangerous hunting sports known in Canada. Every autumn, they hunt rattlesnakes armed only with bows and arrows. They have bagged over 40 rattlers during a single afternoon's hunt. The men walked the banks of the river, where rattlers gather during September in readiness for the winter hibernation. When a snake is sighted, the hunters shoot in the general direction of the reptile. The thud of the arrow landing near the snake makes it coil, and once the rattler is coiled, the archers hurry close to shoot an arrow at the triangular head and kill their victim. Farmers and ranchers of the region cheer on this dangerous sport, keen on having the countryside cleared of the poisonous serpents.

Garters and Rattlers breed at the end of the hibernation period, before scattering on their lone forays across the wide landscape every spring. While some snakes lay eggs, in the case of the two species named the eggs are carried internally and the young are born alive. The mother acts as guardian of the tiny snakes for a short while. And you'll meet many men who claim that the mother snake swallows the young when danger threatens, although scientists claim this is not a fact. I'm not trying to start any controversy on the topic, so you can believe what you wish and welcome.

Have you ever seen a snake swallowing a victim? The reptile's jaws are hinged together by means of an elastic muscle, permitting a terrific expanse of jaw to swallow a large mouthful. A mouse or gopher is invariably swallowed head first, the backward sloping teeth of the reptile helping to push the victim deeper down its throat. Once in the snake's stomach, strong digestive acids start working on the meal while the reptile seeks a quiet refuge to rest during this period. Snakes can fast for long intervals after a single heavy meal.

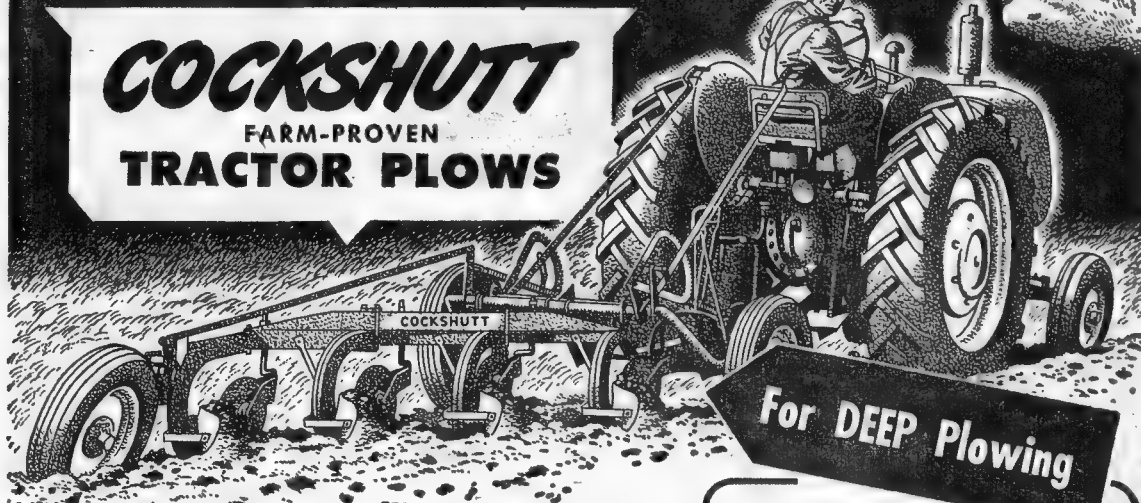
In conclusion, if you ever get bitten by a poisonous snake, apply a tourniquet or tight binding on the Heart Side of the bite at once. Then open the wound, using knife or razor blade to make it bleed freely. If a cutting tool is not available, suck the wound at once — providing you have no mouth ulcers or cut lips. After the bitten area has bled freely, douse it with a strong caustic such as ammonia. Do not ease up on the tourniquet until after the bite has been opened and bled and cauterized. Go to a doctor as soon as possible.

If a Garter Snake bites you, put iodine on the wound and it should heal in a day.

For the modern farmer
... who knows a good plow
when he sees one!

COCKSHUTT

FARM-PROVEN
TRACTOR PLOWS



Plow better, faster, easier at modern tractor speeds

Advanced design, light, rugged construction, perfect balance and clean-cut lines have made Cockshutt Plows outstanding favourites. Even the heavy duty types are amazingly easy on tractor fuel . . . while Cockshutt Speed Plows decrease draft by as much as 20%! . . . resulting in fuel savings that any modern farmer will be quick to appreciate. Cockshutt SPEED BOTTOMS are world-famous for their quick, easy penetration and their ability to turn the soil—even at high plowing speeds—WITHOUT PULVERIZING IT. If you are looking for a REALLY MODERN plow . . . see your Cockshutt Dealer—FIRST!

For Large Acreages



Built for heavy work and large acreages . . . easily convertible, 3 to 4 furrows, 4 to 5 furrows. Adjustable for 14" or 16" bottoms. Mechanical or hydraulic lift.

"4-A" TRACTOR PLOW

3-4 and 4-5
FURROW MODELS

For Speed Plowing



Feature famous Cockshutt "Hi-Speed" Bottoms . . . reduce draft as much as 20%! "120" convertible from 2 to 3 furrows, adjustable for 10" or 12" bottoms. "122" convertible from 2 to 3 furrows; 14" bottoms. Mechanical and hydraulic lift.

"120"-"122" SPEED PLOWS

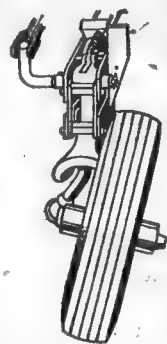
THERE IS A COCKSHUTT DEALER NEAR YOUR FARM

COCKSHUTT "24-A" Tractor Plow

2-3, 3-4 MODELS

Designed for deep plowing. Particularly effective in heavy trash. 2-3 model easily convertible from 2 to 3 furrows; 3-4 model from 3 to 4 furrows. Adjustable for 14" or 16" bottoms. Mechanical or hydraulic lift.

Plus... Exclusive Rear Wheel Design



Automatic device locks plow and rear wheel assembly into one solid unit when at work. Prevents plow "riding up" when hard spots encountered.

HYDRAULIC LIFT CONTROL

Available for All Types
of Cockshutt Tractor
Moldboard Plows

Quick lift—fast drop hydraulic system is finger-tip controlled. Speeds turning at end of furrows . . . enables operator to plow right up to edge of fences . . . ditches, etc. Hydraulic cylinder can be mounted—or dismounted for use on another implement—in a matter of seconds!

Keep AHEAD
with

COCKSHUTT



COCKSHUTT
FARM EQUIPMENT

PARTNERS OF THE CANADIAN FARMER FOR 113 YEARS



HARVESTORS

**BUILT TO GET
ALL
YOUR GRAIN**

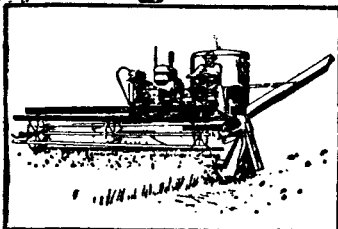


**LOWEST COST PER
BUSHEL, PER ACRE**

Whether you choose the MM G4, the 69, or the mighty Self-Propelled Harvester with Powerflow Drive, you get the features that count! Exclusive MM cylinder feed eliminates slugging, assures even feeding at all times. Sturdy rasp-bar cylinder and one-piece, all-steel welded concave and grate provide uniformly gentle threshing without cracking the grain or breaking the straw to bits! Exclusive MM grain pan assures a steady, evenly distributed flow of grain toward the cleaning shoe and prevents bunching.

Uni-Matic Power of MM tractors can be used for automatically lifting, lowering, and varying the height of cut from 2 to 40 inches on the Harvester 69, on the G4, or on an MM Windrower.

See your MM dealer or write direct for complete information concerning attachments, prices, and booklets on these and other quality-built MM Modern Machines and MM Visionlined Tractors.



Handy controls on the MM HARVESTORS permit operator to make adjustments safely to field conditions "on the go".



The HARVESTOR 69 is famous for low cost harvesting on large or small acreages.

QUALITY CONTROL IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD

MINNEAPOLIS-MOLINE
OF CANADA, LIMITED
REGINA, SASK. WINNIPEG, MAN.
Sub-Branches and Transfer Points in Other Leading Farm Distribution Centers

★ SONG POEMS WANTED to be set to Music. Submit one or more of your best poems for free examination. Any subject. Send poem. Phonograph Records Made. FIVE STAR MUSIC MASTERS, 545 Beacon Bldg., Boston 8, Mass.

RUPTURED?

Advanced method has helped thousands. No leg straps. No elastic. No Plasters. No pressure on hips or spine. Flexo pad. Entirely different. Very light! INEXPENSIVE. Write for information and trial.

SMITH MANUFACTURING COMPANY
Est'd 1893 DEPT. D98 PRESTON, ONTARIO

CONSTIPATED

Act now—and get relief in a few short hours with Dr. Chase's Kidney-Liver Pills. Truly laxative in effect, they treat two conditions at once. Thousands rely on this effective remedy for help when they need it. Dr. Chase—a name you can rely on for faster relief.

**DR. CHASE'S
KIDNEY-LIVER PILLS**

BE WISE—Compare Our Prices Before You Order Your Building Needs

Spruce — Insulation — Masonite — Tentest — Roofing — Sash,
Windows — Frames — Stucco — Wire — Timbers — Nails,
Everything you Need.

**WE SELL FOR LESS YESTERDAY,
TODAY AND TOMORROW.**

WEST COAST LUMBER LTD.
12 AVE. & 6TH ST. E. PHONE 61608. 66595

WHERE YOUR \$ HAS MORE ¢¢

SEND FOR FREE CATALOGUE.

What does your handwriting reveal?

Are you a natural-born salesman or would you make a better mechanic? Have you got hidden talent for art, cookery or stenography? Would you be interested in getting the verdict of an expert on the character your handwriting reveals?

The Farm and Ranch has arranged with Mr. David Meyer, the author of this new and regular feature of the Farm and Ranch, to analyze the handwriting of its readers. Here are the rules:

Write at least 12 lines with pen and ink on good paper. Do NOT — repeat — NOT use a ball-point pen or pencil. Send it, together with 25 cents in coin: —

DAVID MEYER.

7 1/2 Jane St., New York City, New York, U.S.A.

Do not send stamps and always enclose a self-addressed envelope.

Let's look at how the good people write

By DAVID MEYER

IN my last article I discussed the subject of evil as manifested in handwriting. It is appropriate that it be followed by observations on goodness.

George Bernard Shaw said that the true saint enjoys his saintliness. The implication is that goodness enforced from without or motivated by hopes for reward should be suspect.

Most of us are neither saints nor sinners but practical humans trying somehow to survive without causing too much trouble.

Let us take the following word and analyze it.

humility

It was written by a school teacher in her forties.

Note the simplification of the letters. There are no elaborate beginning or ending strokes. Each letter is very legible. The pressure is gentle and soft. The size is medium. These graphological traits tell us that the writer is direct, unpretentious, objective.

The slant is moderately to the right. She is affectionate and socially minded in a quiet, unassuming manner.

The i-dots fly high. Our school teacher's mind is lofty, but the other traits inform us that her feet never leave solid earth.

Note the manner in which she begins the letter "h". The short, initial stroke begins in the upper zone. She is interested in intellectual and spiritual subjects and is prepared to discuss them as objectively as others might discuss the prices of grains and livestock. There is no hint of pride, egotism, pretentiousness about our school teacher. She breathes the spiritual atmosphere as naturally as you and I breathe mundane air.

Observe the soft curves of the connecting strokes in the last three syllables. They tell us of femininity, goodness, kindness and tolerance.

The t-bar is short and set low. We know that she is firm and

determined and has good capacity for sustained effort. She is painstaking, careful and exact. She is motivated by unselfish concentration on the tasks before her.

Note that the down-stroke of the letter "y" does not have a return stroke. Our school teacher, in her quiet, unobtrusive way, has strong capacity for resistance. She has a mind of her own and is not swayed by the tumult of clashing wills and interests about her.

Long Friendships

Altogether, we are safe in saying that she has many devoted pupils who remain her staunch friends throughout life. They remember her true kindness and calm, her truthfulness and willingness to listen and counsel, her feminine reserve and motherly spirit.

Verily, to borrow a biblical term, the simplicity of the script has a tinge of holiness.

I know this lady. Many of her pupils have gone beyond her in professional and intellectual attainments and are now working in plants as engineers or in laboratories as research chemists and physicists or are practicing law or are in business. But they have never lost contact with her during all the years. They visit her regularly. For an evening in her presence is comforting and reassuring, morale-building and spiritually regenerative.

Now, let us take the word "humility" written by a writer who is more average.

humility

This writer is honest and has a sense of social responsibility. We know this from the steady base line and the right slant. The angular-shaped letter "m" tells us that the writer is interested in moral and ethical problems. He is purposive, responsible, active, and has a sense of duty and obligation.

But the size is large. Our writer is ambitious. Unlike our school teacher, he cannot forget himself in doing good. He wants

praise and reward. He wants to be acclaimed as a do-gooder. He hankers to be recognized by his fellow humans as a benefactor.

The pressure is heavy. This tells us that he will insist that his way of doing good is the right way and, possibly, the only way. He tends to be intolerant of others' philosophies and beliefs, especially if they contradict his.

Note the inflated upper loops of the "h" and "l". We are informed that he is generous and kindly, but pretentious. He makes his contributions to society rather noisily. And he usually feels that others are getting more recognition for their good deeds than he is. We might call him a jealous do-gooder.

Observe the loop of the letter "t". Our writer is not nearly as straightforward as he would have us believe. He goes about his affairs, harboring secret ambitions and notions. His actions are heavily shaded by ulterior motives.

Bad Taste

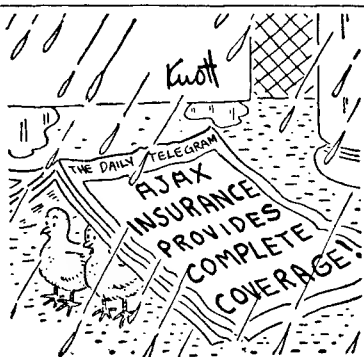
Now note the t-bar. It is shaped like an umbrella or cover. We know that our writer is condescending in his do-gooding. If he does you a favor, he will let you know that he is going out of his way to do it. He will let you know that you are indebted to him. He may go further and make you feel somehow humbled and humiliated by his favor to you. You get the impression that he is smug and complacent. You leave him with a bad taste in your mouth.

Verily, this writer is honest and not ill-disposed, but very, very far from saintliness.

Let's take the word "humility" once again.

humility

This writer is still honest. Everything we said about probity still holds. But, note the way the letter "y" stands separated from the rest of the word. And note especially the leftward-curving last stroke. When you deal with such a writer, get everything down in black on white and have the document notarized, for the writer is subject to sudden changes of mind. If it's a deal you are discussing with him, he may agree to everything and you will feel that everything is settled. The next morning, you may get a phone call from him calling the whole thing off. Such writers are notorious for having last-minute changes of heart.



Get Lifetime Protection with "**FIRE-SAFE**" **ALROL ALUMINUM** Roofing and Siding

COSTS NO MORE

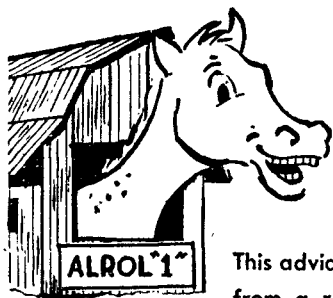
As ALROL Aluminum is solid aluminum—99.5% pure—it gives the maximum protection from fires—which alone makes it one of the safest and most economical building products.

But ALROL Aluminum possesses many more worthwhile features: *Life-long service without maintenance; won't rust, rot, warp, crack or split; needs no paint; light and strong, easy to handle and apply; highly resistant to fumes, weather, heat, cold.*

ALROL Aluminum is available in ribbed, corrugated and cross-crimped corrugated patterns, in 2 thicknesses and in widths of 28" and 36". It is UNCONDITIONALLY

GUARANTEED, your assurance of top quality building material.

Get all these features PLUS *reduced fire risks*—use only ALROL ALUMINUM ROOFING AND SIDING.



**"DON'T TAKE QUARTERS IN ANY STALL
UNLESS IT HAS AN ALUMINUM ROOF"**

This advice comes from the 700 horses saved from a recent fire in California. A stable, not roofed with aluminum, caught fire, threw flames to surrounding buildings and caused the death of 10 thoroughbreds. The 700 horses, housed in adjacent aluminum-roofed stalls were safe because embers falling on the roofs could do no harm.

ALUMINUM ROLLING MILLS LIMITED

Building Products Division

198 OSBORNE ST. NORTH - WINNIPEG, MAN.

Executive Offices and Plant:
Cap-de-la-Madeleine, Que.



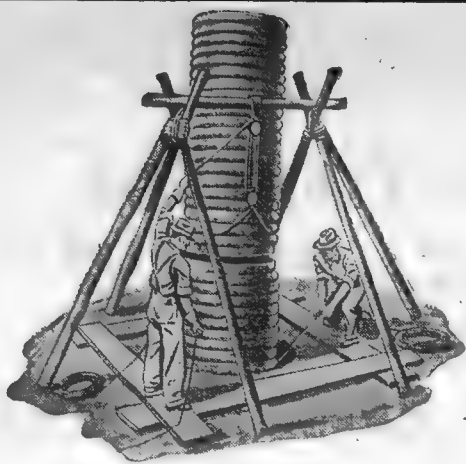
Mail coupon for descriptive folder on ALROL ALUMINUM ROOFING and SIDING.

FR
ALUMINUM ROLLING MILLS LIMITED
198 OSBORNE ST NORTH - WINNIPEG, MAN.

NAME _____

ADDRESS _____

CITY _____ PROV. _____



WESTEEL WELL CURBING WILL KEEP YOUR WELL CLEAN

Prevents cave-ins — keeps out vermin, seepage. Lengths as desired — wide slip joints make it easy to install. Ensures a clean well all the time. A lifetime investment in health and service. Material is Corrugated Galvanized Copper Steel (like a culvert) highly durable and always sanitary. Sizes 8 to 72 inches.

Ask your dealer or write us for further information.

WESTEEL PRODUCTS LIMITED

Winnipeg
Calgary

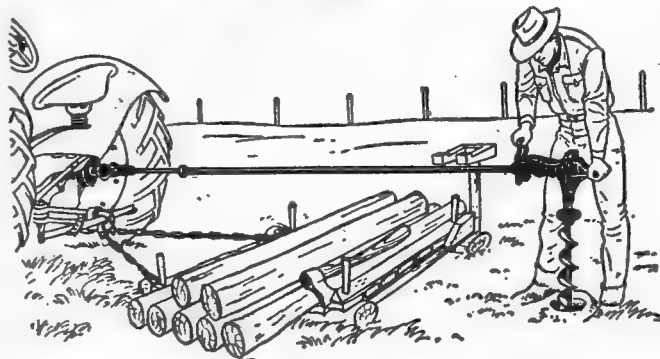
Regina
Edmonton

Saskatoon
Vancouver

MENTION THE FARM AND RANCH IN BUYING PRODUCTS
SHOWN IN THIS ISSUE.

THE DIGFAST CLUTCHHEAD POST HOLE DIGGER

NOW! — One Man Operation



- Tractor Operated 36 inch hole \$95.50
- One Man Operation 40 inch hole \$98.50

1952 MODEL — Attaches in Seconds! — Digs in Seconds!

DIGS HOLES ANYWHERE

No tractor juggling or unhooking stoneboat to dig holes on slopes, in corners, snug to fences, in gravel ground. Telescopic drive shaft and universal joints allow a 50 degree swing in 4" x 8" area. Same proven parts as in other years re-arranged for one man operation

FITS ANY POWER TAKE-OFF

4" or 6" Augers Bits for 4 1/2" 7" or 8" holes Extra Bits \$3.00

BUY DIRECT — WRITE TODAY FOR FREE BOOKLET

RANCH & FARM SUPPLIES,
1137 - 11th Street East, PHONE 55124,
CALGARY, ALBERTA

FR-JULY-'52

I am enclosing \$_____ for _____ inch Digfast, equipped with _____

inch Bit. Name of Tractor or Jeep _____ Size of _____

Spline _____ and send me _____ extra Bits at \$3.00 each.

NAME _____ ADDRESS _____

MONEY BACK GUARANTEE

Careful cooling spells good milk

By TOM LEACH

IT doesn't require a million-dollar barn to produce clean, sweet milk in the summer. What it does take is the desire of the farmer to obtain the highest grade and the extra returns which good milk and cream will bring on his milk check.

Every spring and summer, as the thermometer creeps upward, the milk graders find more and more cans coming into the dairies with a slightly sour odor. A whiff of the milk at the instant the lid is taken off the can will almost tell the grader what day of the year it is. Summer heat brings with it the problem of sour milk. That is not necessary. The farmer does not have to lose out on his grade because of the warmer weather and members of the Fraser Valley Milk Producers' Association have proved it almost 100 per cent.

The 3,000 shippers of this Association have had their milk tested in their own laboratory for many years. When testing first started they always had a growing number of cans of sour milk as summer approached but over the past ten years this has been eliminated. Seldom now, is any shipper penalized for sour milk.

The system which they put into operation worked so effectively that the public health department set up a similar plan for all other dairy farmers shipping milk to Vancouver dairies. The F.V.M.P.A. have their own testing laboratory which picks up samples of milk at regular intervals from each farm as the milk arrives at the dairy. Besides making a check on the fat content they check the number of bacteria in the milk. It is the bacteria which cause the milk to sour and if the numbers reach the danger point the farmer is notified immediately and a field man calls at the farm to help find the source of the trouble.

Present regulations require that milk from every farm which is shipping to the Vancouver dairies be checked at regular intervals for bacterial content. The work is done by dairy chemists and when samples show a high or dangerous number of bacteria, the name of the shipper is turned over to the inspectors of the B.C. Department of Agriculture. Two men are kept busy most of their time at this season of the year visiting the farms which are approaching or have run into trouble.

During the winter time they find cases where the numbers of bacteria in the milk are high but they say that nine times out of ten they know before they go near the farm that the persistent malady, mastitis, is the cause of the trouble. Cooling milk in the winter seldom presents any problem and that is the biggest handicap to producing clean milk in the summer.

Good Water

One of the requisites for a good dairy farm is a satisfactory water supply. Many farmers have a good water supply but fail to make the best use of it. On the other hand, many have ample water but find that it is not cool enough during the hot

summer months to bring the temperature down when it is most important to keep the milk cool and check bacterial development.

The inspectors in B.C. have found a number of cases where farmers have tried to cool their milk with water that has a temperature of 65 degrees or over. No matter what they do they have little chance of getting the milk temperature much below the 65 degree mark and at that point the bacteria continue to multiply rapidly. By the time the milk reaches the dairy the following morning it is showing signs of souring. The grader sets it aside for manufacture and the end result is a lower milk check.

Where the water supply can not provide a means to get the temperature of the milk down quickly to 45 degrees or less, the inspectors have been recommending the installation of cooling equipment operated by gas or electricity. That, they point out, requires a bit of expense but if the producer is shipping any quantity of milk the cost is justified.

There have been a few cases where milk has been handled in a careless manner. There is a rare instance where the farmer has taken no precaution to preserve the good quality of the milk; where the bacterial count is high to begin with and with insufficient cooling the contamination has grown rapidly. In most cases though, the farmer has missed out on one or two essential points which will help to keep the milk sweet and clean.

Aside from a few insignificant sources of contamination which are found on rare occasion, here is the way the inspectors place the cause for sour milk: Improper cleansing of equipment, infection of one or more quarters in one or several cows in the herd, improper cooling and holding of milk before it gets to the dairy. In the summer time this latter reason heads the list.

Cooling in itself will not kill the bacteria which cause the souring of milk. All that cooling can do is to restrict their growth. They multiply very slowly around 40 degrees, rapidly at 65 to 70 degrees and at body temperature, once the milk is in the can, the bacteria may multiply so rapidly that the milk could develop sourness within a matter of a few hours.

Watch Details

Experience shows that with a little attention to details of cooling and handling of milk on the farm, most shippers can maintain the high quality of the product throughout the year, even during the hottest part of the summer.

One of the larger milk shippers of the Fraser Valley was recently called away from the farm on business. He left instructions about the milking with the hired hand, but on his return two weeks later he had a notice from the dairy that his milk was down in grade. That meant that all



"Hey Felles, you forgot the piano."

of his milk would be cut to manufactured grade unless the trouble was cleaned up quickly. He called the inspector and together they checked every point along the line.

The cows' udders had been washed and dried as usual, apparently clean utensils were used for milking, and the milk put over a brine cooler which reduced the temperature to 40 degrees. The milk was held at that temperature until the milk truck called the following morning.

There was no accounting for the low grade when the milk reached the dairy until the inspector checked the milking machine. The farmer had omitted to warn the man about cleansing the tubes. They had not been touched for over 3 weeks and sufficient bacteria were getting into the milk to cause souring before the evening milk could be delivered to the plant. The trouble was soon corrected.

Adding morning milk to a part can from the night before is common practice. It is a dangerous thing to do the inspectors claim unless the milk is cooled first. Otherwise the entire can may be sour on delivery. Often they find the milk can being taken into the barn and filled before any attempt is made to start the cooling. They recommend keeping the can in a cold water tank and adding the milk and stirring frequently to get the temperature down as soon as possible. Another hint they pass along is to leave the lid of the can loose until ready for shipping. That allows many off odors to escape.

Clean utensils are important, washing the udder before milking is a sound practice to follow but there is still danger of dropping in grade if the milk is not cooled quickly and kept cool. Once that practice is followed the inspectors claim that the milk will retain top quality and not even a thunderstorm will cause it to sour.

That, by the way, is simply a myth which has been handed down from one generation to another. No thunderstorm can exert any power to change the quality of milk or cream. If the story was true, then dairies all over the country would soon go broke — they deliver milk to cities each day and it stands on porches throughout lightning and thunderstorms without suffering in quality.

Before a thunderstorm the humidity is high and the temperature higher than usual. Should milk or cream be sitting in that atmosphere it will rise in temperature and the bacteria will multiply faster. That causes the milk to sour — not the storm.

Keep the temperature of milk down, say the inspectors — and you can match the record of the 3,000 shippers of the F.V.M.P.A. and have almost 100-per cent grade "A" milk in the hottest part of summer.

Answers to Canadian Quiz

By GEOFFREY SHAWCROSS

1. Marquette, Joliet, La Salle, and Tonty.
2. Between two tiny islands in the St. Lawrence, the left one being American and the other Canadian.
3. About 200,000 square miles.
4. The Intercolonial Railway.
5. In 1876.
6. 1,309,000 square miles.
7. In 1869.
8. Sir Alexander Mackenzie.
9. Air Chief Marshal Lloyd S. Broadner.
10. The British Commonwealth Air Training Plan.

Farm Service Facts

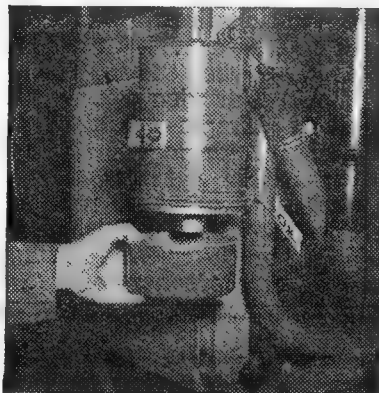


No. 30W PRESENTED BY

IMPERIAL OIL LIMITED

HOW TO GET BETTER SERVICE FROM YOUR COMBINE

A year ago Farm Service Facts was devoted to overhauling the combine. In this issue we are offering our readers tips on combine maintenance and operation. The following information deals with a few of the things that are sometimes overlooked and is based on the experience of farm machinery service engineers over a period of years.



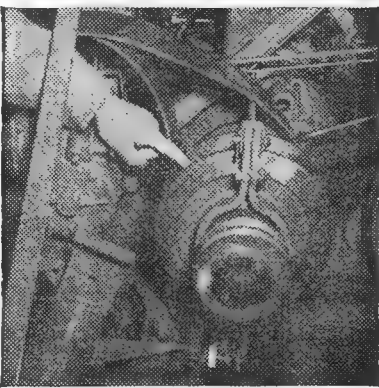
Care of the Air Cleaner

Tests on farm tractors indicate that without an air cleaner a tractor engine would be ruined in fifteen hours. Combines operate under even more dusty conditions. That is why daily servicing of both the air cleaner and the screen on the intake pipe is so important. It is also important to check the connections between the air cleaner and the carburetor every few days, as any dust-laden air which bypasses the air cleaner will greatly accelerate engine wear. The body of the air cleaner should be washed out periodically.



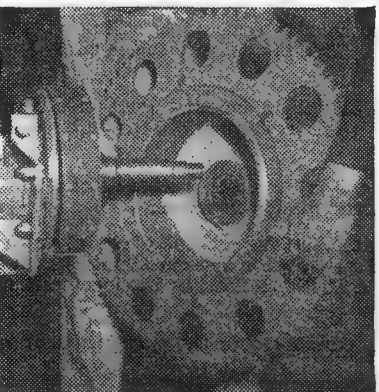
Cylinder Speed and Concave Adjustment

A speed indicator of some kind is a necessity on every combine. Too low cylinder speed will result in poor cleaning, loss of grain, failure to thresh grain from the heads, or overloading of the entire machine. Too high cylinder speed will result in cracking, loss of grain through bouncing, and excessive wear of the whole machine. Adjust concave as low as possible, so long as the grain is being threshed out of the heads. In one test the correct cylinder speed and concave adjustment lowered grain loss from 283.4 lbs. per acre to 14.2 lbs.



Traction Belt Pulley— and Slip Clutches

All V-belt pulleys (and particularly the traction belt pulley on self-propelled combines) become highly polished during use. In storage they frequently rust. Unless the polished parts are cleaned thoroughly before use, the rust-pitted surfaces will greatly increase V-belt wear. (To prevent rusting during storage, protect pulleys with a rust preventive.) If slip clutch facings are in good shape they should be taken apart and all dirt, grease or rust washed out. Adjust the spring tension tight enough to carry a slight overload without slipping.



Front Wheel Lubrication

Instruction books call for yearly lubrication of front wheel bearings. Just as it is important to force out old grease from all the working parts of the combine after storage, it is equally important to remove old grease from front wheel bearings. Wash out the bearings, dry, and repack with fresh grease.

Do not overgrease as excess grease will affect the operation of the brakes. Overgreasing is also undesirable around V-belts as grease which is thrown off will quickly rot belts made of rubber.

General Tips on Engine Care

A check-up of the engine each season will save money. Timing of the ignition system particularly tends to get later as the engine wears. If not corrected, the engine will run hot and lack power. Some equipment dealers provide a complete combine check-up service.

Cleaning the engine and radiator with a good stiff broom will help to keep the engine running at proper temperature. Regular change of oil and servicing of the oil filter will lengthen engine life. Oil filters prolong engine life but oil will not last indefinitely.

GIANT-SIZE POWER!



FOR A
NON-STOP HARVEST
USE
IMPERIAL ESSO
ACTO GASOLINE
ESSO DIESEL FUEL

Imperial ESSO fuels are backed by years of research and engineering skill. Expert refining is your best assurance of perfect non-stop performance with "power to burn" from the day harvest starts . . . until the finish.

A fuel you can depend on will go a long way to help you put in a full day's work in getting your crop off before a spell of wet weather sets in. For maximum economy and efficiency in your high compression tractor, combine, car or truck use ESSO Gasoline. It's 'tailored to the season' to give you better starting and smooth performance in all kinds of weather.

For easy starting, for a shorter warm-up period and for extra power in your medium or low compression tractor, you'll find that Acto Gasoline will give you the most for your fuel dollar.

If you own a Diesel farm tractor, use ESSO Diesel Fuel. It's specially refined to close specifications to give you trouble-free starts and smooth flowing power even on the coldest day.

See
your
Imperial
Oil
Agent



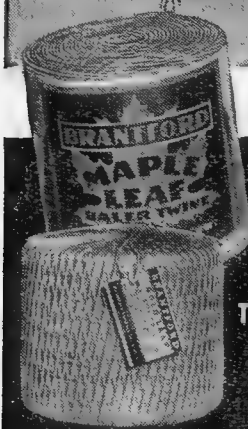
Next issue of
Farm Service Facts
will deal with farm safety.

FILL ALL YOUR TWINE AND ROPE NEEDS

WITH

BRANTFORD CORDAGE

QUALITY PRODUCTS



"GOLD LEAF" BINDER TWINE
"MAPLE LEAF" BALER TWINE
MANILA and SISAL ROPE

THE BRANTFORD CORDAGE COMPANY LIMITED

BRANTFORD ONTARIO

Western Office: 289 Chambers St., Winnipeg

IF YOU MOVE, you'll want to have your favorite farm paper mailed to your new address. Be sure to send change of address promptly to **THE FARM AND RANCH.**

Changing fashions in war make prisoner problem tough

By BEN MALKIN

THE large prisoner-of-war compounds on Koje Island, off the coast of Korea, each holding thousands of men, have now been broken up into smaller, more manageable groups. Altogether, more than 80,000 men were involved. Before the movement was over, troops of several members of the United Nations were on guard duty—The United States, Britain, Canada, Greece.

The whole incident brought to a head the question of how to deal with prisoners of war. In the nationalist wars of the 19th and 18th centuries, the problem used to be easy. The First World War also offered a relatively simple problem. But modern, ideological wars that cut across national lines have presented a whole new set of questions that require new answers on the question of how to deal with prisoners of war.

Formerly, it was considered that all prisoners coming from the same country were friends, and all would want to go home after the war, for wars were fought between nations, not between ideological groups. Even as late as 1949, when the new Geneva Convention was signed, it was agreed that prisoners should be automatically repatriated after hostilities ceased.

Out of Date

The Korean war has proved that this concept is completely out of date. Early in the war, the United Nations found that a number of the North Koreans and Chinese, whom they held prisoner didn't want to go home after the war. That is to say, they didn't want to go back to China or North Korea. To them, home was not where their native land was; instead, home was where their beliefs lay.

One of the conditions the United Nations have therefore laid down for a truce is that no prisoner who didn't want to be repatriated should have to go back to his own country. Prisoners in U.N. hands were screened, and it was found that 62,000 didn't want to return home. The Communists for a long time rejected that figure, and wouldn't agree to a truce because the U.N. refused to repatriate that many men.

Was the U.N. breaking the Geneva Convention when it refused to repatriate the prisoners? There is legal opinion which holds that the Convention was being upheld by this action. As one writer in *The Economist*, a London publication, pointed out, the intention of the Convention was to protect individuals, not governments. The reason why the repatriation clause had been inserted was to prevent prisoners

Yes Sir.... I'm for the ALBERTA WHEAT POOL



1. Because Alberta Pool Elevators give effective service and protection to all.
2. Because Alberta Pool Elevators are operating at cost and excess earnings are returned to member patrons. Over the years such patrons have received over \$5 million in cash and nearly \$6 million in reserves. Ownership rests with the reserves.
3. Because Alberta Wheat Pool and Pool Elevators are owned by many thousands of Alberta farmers who have invested close to \$8.5 million in this great enterprise. Pool members can safeguard this investment by delivering all their grain to Pool elevators. A large volume of deliveries means low cost of operation.
4. Because the Wheat Pools are mainly responsible in keeping down the cost of handling grain. Such costs are remarkably low, probably the lowest in the world. This is a tribute to the effectiveness of farm co-operation.
5. Because the business operations of the Alberta Wheat Pool are an "open book". Pool members may obtain the fullest information concerning the operations of their organization through their elected delegates and directors.
6. Because the co-operative principle of "each for all and all for each" is the co-operative ideal which aims at spreading economic justice throughout the nation and throughout the world.
7. Because it is of vital importance to Alberta grain producers that a strong co-operative elevator system should flourish in this province. It is essential that such an elevator system should be under the control of Alberta grain producers — the men who are actually following the occupation of farming.
8. Because Alberta Wheat Pool is the only organization in Alberta which meets these requirements.

Alberta Pool Elevators

"It's Alberta Pool Elevators For Alberta Farmers."

Up a Pole



Mrs. Joe Halldorson of High Prairie got this unusual shot of a truck up a power pole on the Grouard Road.

from being held against their will after a war, as German and Japanese prisoners were held by Russia after World War II. By the same reasoning, prisoners should not be repatriated against their will, provided it was satisfactorily proved that they were genuinely seeking political asylum, and could, therefore, be regarded as refugees, rather than prisoners.

New Concept

If the rights of the individual should rise above the rights of the state, then the U.N. was quite justified in refusing to repatriate the prisoners who refused to return home. In this action, all the U.N. members seemed generally agreed.

But it opened up a whole new concept of warfare as a conflict between ideologies, rather than between nations. Koje advanced that Concept a little farther.

Much of the trouble on Koje was due not only to the defiance which prisoners showed against their guards, but as well to the fact that in each compound they had set up little police states modelled after those run by their governments in China and North Korea. Well-organized, highly-disciplined Communist officers ran the compounds, and ruthlessly suppressed political opponents of Communism. They set up courts and executioners. Anti-Communists were tortured and murdered, and in general reduced to a state of terror. So

even in the compounds, the ideological war went on. It was not a national war at all, for men of the same nation fought each other.

This means that the old system of putting all prisoners of one nation together won't work any more. It means, too, that not all men of a nation with whom the West might be fighting would be enemies. Many might be friends, ready to fight with the West for ideological reasons.

The Canadian part in the Koje incident was small, but because Canada told the United States that Ottawa should have been consulted before Canadian troops were taken away from their parent unit, it got a lot of publicity. However, in this instance Canada may have been protesting unnecessarily.

After all, guarding of the prisoners on Koje was a U.N. responsibility, and Canada as a member of the U.N. with forces in Korea, had to share in that responsibility. Withdrawal of a company from the Canadian brigade wouldn't break up the identity of the brigade. However, since Canada — and Britain — had to share in the consequences of mistakes made by the U.N. command on Koje, these countries might have been given a bigger share, along with the Americans, of the responsibility for making policy. As one British publication put it: No slander without representation.

A FARMER'S REFRIGERATOR

Designed Specially For You.
Has Frozen Food Storage.
Has Ample Storage Capacity.
Capacity over 10 Cubic Feet.
13 Square Feet Shelf Space.
Trouble Free Sealed Unit.
Specially Priced to Certified Farmers.

\$350.00

Write or Call Today

ELECTRIC-CRAFTS LIMITED

114 - 6th Ave. W., CALGARY

Low Cost  Durable
Timberib Farm Buildings
Engineered to size—for Fast, Easy Erection.

Save Money
—cut labour. No nailing, sawing, fitting.
Save Space
—no posts or supports clutter interiors.
Save Maintenance Cost
—4 times as strong as nailed rafters.
Write for full illustrated information:

TIMBER BUILDING COMPANY LTD.

Office Phone 47355 Res. Phone 72113

1000 — 10th AVENUE WEST, CALGARY

Authorized Distributors of Timber Structures of Canada Ltd.

WE SELL RESULTS

GOLD MEDAL

QUALITY FEED



For Healthy Growth!

- CHICKEN STARTER CRUMBLES, 2 to 8 Weeks.
- GROWING MASH PELLETS.

Order Now!

GOLD MEDAL FEEDS

LIMITED

CALGARY

23895

ALBERTA

GLASSES on 30 DAY TRIAL!



SAVE UP TO \$15.00

Test your eyes at home with our HOME EYE TESTER. See far and near. Perfect satisfaction guaranteed. Send name, address, age for 30 Day Trial Offer. Free Eye Tester. Latest Style. Catalog and full information.

FREE Agents Wanted

VICTORIA OPTICAL CO., Dept. K216, 276 1/2 Yonge St., TORONTO, 2, ONT.

"CATERPILLAR" ECONOMY MEANS PROFITS!

Mr. Albert Anderst of Hilda, Alberta, has this to say about his CATERPILLAR Diesel D2 Tractor and its performance on his farm:

"For fuel economy, you can't beat the D2. I know what is meant when men talk about CAT dependability and performance. I've just finished seeding 50 acres of oats with a 12-foot press drill on 10 gallons of diesel fuel at 20c per gallon. What's that come to? A total of \$2.00 for fuel — 4c per acre!" Mr. Anderst goes on to say: "When you tell farmers who own gas-powered tractors just how little fuel a D2 uses, why, they won't believe you!"

*Seeds 50 Acres of Oats
on 10 Gallons of Diesel Fuel!*



Mail Coupon Today!

Advertising Manager, FR-7-52
UNION TRACTOR & EQUIPMENT
CO. LTD.,
Calgary, Alberta.
Please send me further information on
the D2, D4, D6, D7, D8,
"CATERPILLAR" Diesel Tractors.

NAME _____

ADDRESS _____

**UNION TRACTOR
AND EQUIPMENT CO. LTD.**

"CATERPILLAR DISTRIBUTOR"

Calgary - Lethbridge - Edmonton - Red Deer - Grande Prairie - Regina - Saskatoon - Tisdale

Grimshaw - Dawson Creek, B.C.

KRAMER

Tractor
COMPANY LTD.

"CATERPILLAR" DISTRIBUTORS FOR SASKATCHEWAN



What if your future overtook you to-day?

Every man wants to be sure that should anything happen to him, his wife and family will be able to keep the home together and in a position to carry on the farm.

There's no better way of doing this than leaving it free of debt and worry through the protection of Mutual Life insurance.

The sooner you start your protection, the smaller the premium will be.

The good thing about Life Insurance is that while you are protecting your family, you are also saving for your own future and the days when you want to retire.

Everyone Needs Insurance — Everyone Can Afford It

Find out today how you can protect your family . . . and set up a retirement income for yourself for the days when you want to retire.



MAIL THIS COUPON

THE MUTUAL LIFE OF CANADA
WATERLOO, ONTARIO

Please send me your free booklet "What Life Insurance can do for the Canadian Farmer".

NAME.....

ADDRESS.....

You don't need rocks to build a good dam

By EMIL LORENTSON, Bindloss, Aluta.

I STARTED my dam with a wheelbarrow in 1912 and kept adding to it till 1928 and had eight acre feet of water held back. It was all done with a team and a scraper.

I got jacked up from the government for building a dam without a permit. I kissed the Bible to say I took my homestead for my own use so figured I had the right to pile up some mud of my own to hold some water.

There should have been thousands more built, but the Calamity Janes said, "The soil was so cracked it wouldn't hold water." "Snow water was no good to use." "The C.P.R. had lost millions on dams, etc."

Some people say they can't built dams because they have no stone. One doesn't need stones. One of my dams is 40 years old, another 23, another 10 years. I only used a few stones at spillway end. Two men have to work hard to get in 10 yards of stones in one day. The same men can bring in 100 yards of mud with 6 horses or a tractor. So its better to make the front slope a gradual or lazy one, and when made from earth it can be sown to grass.

It is always wise to make the

whole dam higher and thicker than recommended by engineers. Twelve feet across on top is not too wide.

If the dam leaks at the start, disc the bottom as the water recedes. Run over it with a lug tractor and let stock trample the bottom. My dams have given tens of thousands of stock waterings to neighbor's stock besides my own, as well as hundreds of tanks of water for the old steamers.

The sides of dug-outs should be on a lazy slope, too. It costs more to keep a straight wall and the straight wall makes a death trap for stock and kids in swimming.

If the walls are made on a slope they can be disced and the sediment will settle in and make them tight. Then the bulldozer can push the mud out three ways and do it cheaper.

When the people get re-educated to the value of snow moisture there can be hundreds of thousands of little flood or irrigation projects by small dams; and an acre here and there for feed made with just a furrow or two thrown together will help in so many ways that it will make the St. Mary dam a miniature project.

We Started Something . . .

The publication of the story of Henry Dosch's dam in the May issue of the Farm and Ranch struck a responsive chord with our readers. Here's another farmer who started water conservation in the old homestead days and has seen his hard work crowned with success. We'd like to hear from our Saskatchewan and Manitoba readers, too.

The Editor.



NATIONAL SAFETY COUNCIL

FARM IMPROVEMENT LOANS

AVAILABLE FOR:

Implements, Machinery, Equipment.

Breeding Stock:

Construction, Repair or Alteration of any farm building.

Fences, Drainage, etc.

Farm Electrification.

See your friendly 'Royal' branch manager for full details.

SEND FOR IT TODAY! Ask for this booklet at your friendly 'Royal' branch.



The ROYAL BANK OF CANADA

You can bank on the 'Royal'

Get Quick Relief from CHRONIC BRONCHITIS

"Ever since birth, I was subject to attacks of Chronic Bronchitis," writes Mr. Roy Jarvis, 1026 Dovercourt Rd., Toronto. "I coughed violently and wheezed a great deal. Then I learned about RAZ-MAH—and now I'm happy to say I've found relief."

You, too, can get quick relief from that dry, hacking or phlegmy bronchial cough. Take Templeton's RAZ-MAH—the remedy specially made to relieve Chronic Bronchitis, Asthma and Hay Fever. Enjoy your work, enjoy your rest—start taking RAZ-MAH today! 65c, \$1.35—at druggists. R-52

A HAND-SIZE CHAIN SAW

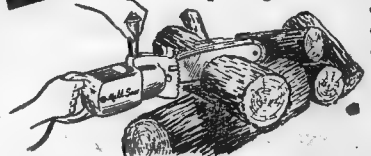
A Goldmine for Farmers

TIMBER

CORDWOOD

FENCE POSTS

This "little fella" cuts more timber in less time than 10 men with hand saws. Cuts trees up to 30 inches wide. Weighs just 11 lbs. Operate it with one hand. The perfect saw for pruning.



Send For: A Goldmine in Trees MALL TOOL LTD.

17K

2806 The Kingsway Vancouver, B. C., Canada



Fighting Rats

Had rats everywhere in late fall, but with Warfarin got completely rid of 'em. Kept bait in every building where they would come in. When warm weather came I picked up two dead rats. These two had just arrived; clear of 'em again — and we have all cement foundations.

This is my suggestion. Put on gloves. Take an ordinary tobacco can, two-thirds fill it with rolled oats. Cut piece of cheese or butter in very small pieces. Put these on top of rolled oats. Pour in your Warfarin — and mix well.

Cut a hole in the top of an apple box — big enough for a rat. Place bait on floor in corner and place box over it. Place heavy irons or stones so it can't be moved. Leave it there all the time. T. B. Millar. Saltcoats, Sask.

Last Word from Mr. Einarson

To the Editor:

This is to thank you most sincerely for printing my letter, and, as I find it impossible to answer all the letters received regarding that letter, I would be not only pleased but grateful if you would print my thanks to all the good people that sent me letters as well as the ones giving their views in your paper.

Some of the letters ran to nine pages of close typewriting.

In short, that letter brought me greater return than any other endeavour ever did.

Letters and books came from all the western provinces and Ontario. Bible students and Christian Hebrew Association in the U.S.A., and five associations in Canada were all willing to spend their good money to try to get me, the lost wether, to a fold.

My new friends are all concerned about the hereafter. They show more variety of color than Joseph's coat. One quotes some Lady Blount "to prove that the earth is flat and stationary in the firmament and held up by the dome above, with all the people in it called stars.

Six letters tell me, that to worship or pray on other days than Saturdays is no good, and quote 17 different numbers from the Good Book to prove that God is not committed to listen any other day.

Others tell me that Jesus is the one we must look to for our Blessings, that we are in his department and would do well to remember, that the Father and the Holy Ghost have their departments and do not take kindly to things being confused; hence the mess this world is in.

Others read signs by falling stars and general disorder in the universe that this earth is not going to be with us much longer.

Nine letters insist that every vicious attack on the Holy Church strengthens it through the divine righteous anger it arouses in the faithful, and state that my trespasses will be pun-

ished when I least expect; that the Lord's patience is long but has limits in cases of those that hold hogwash superior to holy water for cleansing.

Thanks, folks: Had to let you know I read your favours. Hoping the earth will stay in its orbit long enough for me to be planted in comfort; so hang on tight all of you that think there is going to be a crash.

Gestur Einarson.

Westbourne, Alta.

Editor's Note: This correspondence is now closed.

Keeping the Sabbath

To the Editor:

There seems to be some confusion yet as to whether we have the right to keep Sunday holy.

It was started by the apostles in remembrance of Christ's Resurrection and to distinguish the new Church from the old.

Don't blame poor Constantine for it. He only made it into a public holiday.

Many other customs of the old Jewish law were done away with, such as the circumcision and the offering of bloody sacrifices. The people were also permitted to eat the flesh of what used to be called unclean animals such as pigs.

You may well wonder how Christ's Church dared to make such sweeping changes but rest assured that it was all according to the will of God; for did not Christ say He was building His Church on a rock against which the gates of hell would not prevail, also that He would send it the Holy Ghost the Spirit of Truth who would teach it all things and abide with it forever.

Celine De Neve.

RR 3, Salmon Arm, B.C.

Diminishing Return

In Bonham, Texas, Justice of the Peace W. E. Keeton fined a defendant on a bad-check charge, accepted in payment a check which was duly returned marked "Insufficient funds."

HAIR COMPLETELY RESTORED

Money Back Guarantee

Thalia Hair Restorer Formula TH10 is a scientifically prepared herbal product that stimulates and revives inactive hair cells. It has proven successful in restoring healthy, normal hair regardless of condition or time of baldness. Because thousands of people in every part of Canada have shown their praise and gratitude in unsolicited letters, we know that new hair can be grown for you, in one to eight months or we will REFUND YOUR MONEY IN FULL. Write today for free information to Thalia Herbal Products Ltd., Dept. No. 822, 4371 West 10th Avenue, Vancouver 8, B.C. TH-10

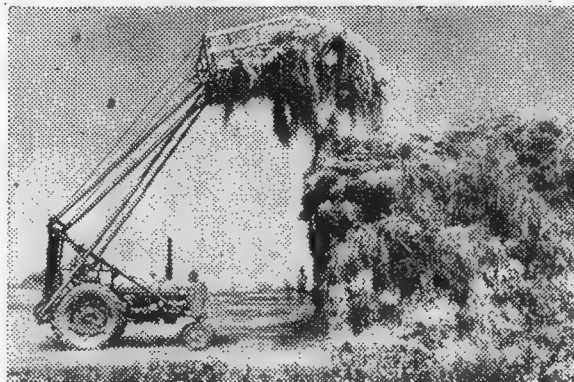
Skinny men, women gain 5, 10, 15 lbs.

Get New Pep, Vim, Vigor

What a thrill. Bony limbs all out; ugly hollows all up; neck no longer scrawny; body loses half-starved, sickly "bean-pole" look. Thousands of girls, women, men, who never could gain before, are now proud of shapely, healthy-looking bodies. They thank the special vigor-building, flesh-building tonic, Ostrex. Its tonics, stimulants, invigorators, iron, vitamin B₁, calcium, enrich blood, improve appetite and digestion so food gives you more strength and nourishment; put flesh on bare bones. Don't fear getting too fat. Stop when you've gained the 5, 10, 15 or 20 lbs. you need for normal weight. Costs little. New "get acquainted" size only 60c. Try famous Ostrex Tonic Tablets for new vigor and added pounds, this very day. At all drugists.



"Haying and harvest... I handle both with one FARMHAND!"



STACK 5 TONS AN HOUR: With only two men—one on the stack, the other operating tractor—you stack more than 5 tons of hay an hour with Farmhand Loader and Haybasket with Push-Off. You build taller, tighter stacks—up to 27 feet high, with less leaf loss. Government studies show labor savings up to 50%!



HI-LIFT LOADER



HAYBASKET ATTACHMENT



Farmhand
FIRST in farm materials—handling!



HANDLES SHEAVES AND HAY: Buck windrows or rows of stacks with a Farmhand Loader and Haybasket and you save dollars in labor costs—hours of backbreaking work! Big, husky 15-foot wide haybasket picks up half-ton loads, lets you haul sheaves or hay as fast as you can drive your tractor! Then smooth Hydraulic power, with simple one-hand control, lifts load up to 21 feet high—quickly, easily, safely!



ONE-MAN STOOK LOADING with a Farmhand Loader. Saves hauling time plus two or three men's work and wages. Power tilt-control slides load into place... No "drop" to shatter sheaves—snap heads off grain—or damage equipment. A Farmhand Loader's the way to faster harvesting with less work—lower wage costs!

SEND NOW FOR COMPLETE FACTS!

To: THE FARMHAND COMPANY, St. Boniface, Manitoba.
Please send fully illustrated and detailed information FREE!
☐ FARMHAND LOADER

☐ PUSH-OFF ATTACHMENT ☐ HAYBASKET ATTACHMENT

NAME _____

ADDRESS _____

TOWN _____ PROV. _____

"THE FARMHAND COMPANY" F.R.R.-4
A division of SUPERIOR SEPARATOR CO. OF CANADA LTD.

EATON'S Bargain Flyer!

Mail Order



20 PAGES OF OUTSTANDING BARGAINS FOR ALL THE FAMILY

Shop Early-

BE SURE TO SHARE IN THESE GRAND SAVINGS

T. EATON CO. LIMITED
WINNIPEG CANADA

USE EATON'S MAIL ORDER OFFICE SERVICE

if there is one in or near your town. You receive prompt, courteous attention, whether you place your order in person or by telephone.


Trains travel faster than you think!



The toll of railway crossing accidents in rural areas is mounting. The increased speed travelled by trains, miscalculation and carelessness account for most collisions. We urge you to exercise extreme caution at crossings no matter how familiar you are with schedules of trains passing your farm.

STOP, LOOK, LISTEN AT EVERY CROSSING!
REMEMBER THE LIFE YOU SAVE
MAY BE YOUR OWN!

INSERTED IN THE INTERESTS OF PUBLIC SAFETY BY



ALBERTA BREWERS' AGENTS LIMITED
REPRESENTING
BIG HORN BREWING CO. LTD.
CALGARY BREWING & MALTING CO. LTD.
SICKS' EDMONTON BREWERY LTD.
SICKS' LETHBRIDGE BREWERY LTD.
NORTH-WEST BREWING CO. LTD.



When our mother pig had little pigs, we put a heat bulb above a special place for the little ones. Soon our cat found out how warm it is under the bulb, and after she learned that, she always sleeps with the pigs where it is warm.

Martha Rempel.
No. 46, Austin, Man.

Last winter a friend of mine found a little snow bird. He gave it to me because it had a broken wing. And I brought it home and put it in a box. We fed him oatmeal and scraps of meat. We let it drink out of a saucer of water. It was very wild at first, but it got tamer as time passed. It pecked grain out of my dad's pant cuffs when he sat at the table. He used to try to chase my six-year-old sisters when he got mad at them. His wing never got better. We had him for three months when he met with an accident and died.

Marvin Westin.
R.R. 3, Calmar, Alta.

One day, while my brother and I were working in the field, we had left our lunch home for our older brother to bring it with his pony and cart. When he came he put it at the end of the field, tying his pony to a nearby tree. When I reached the cart I saw the lunch was gone. The pony had made use of all the sandwiches, only a few cookies were left.

Buck Nowosad.
Carrot Creek, Sask.

For three consecutive years, two bluebirds made their nest in our barn in a hole made by a woodpecker. Our barn has two sets of boards, one on each side of the scantling and there's braces in between the scantlings every two feet, but, some how a baby bluebird fell in between the boards and my brother Harry and I had to break the outside board to get the bird out. The poor bird flew away happily when we got him out. It's a great pleasure to watch birds bringing food for their young. I'm waiting this spring to meet these pretty birds again.

Steve Lesiuk.
Candiac, Sask.

One morning while our hired man and I were out in our back eighty we came across this one bundle of sheaves, as we lifted it up out came a grey streak and started across the field. Joe stepped back and watched it go, but as soon as I seen it I was out across the field and after it. When I was almost upon it, it stopped and I tripped over it. When I heard it I knew right away what it was—a baby rabbit. He ran into a little bit of brush and that was where I caught it, very, very frightened. I picked the little fellow up and carried him back to Joe who was sitting down laughing at me. He said that I could go home with it if I wanted so I started out. When I got to my bike I put him in the basket and wrapped my coat around him. It sure didn't take me very long to get home. When I got home



THE TILLERS

★!!*@!! THIS PUMP IS FROZEN TIGHT! HUNK!

SOMETHING WRONG?

LOOK AT THAT FROZEN PUMP! I TOLD YOU TO DROP THE WATER AT NIGHT AFTER USING IT! I'M GOING TO DEDUCT THE REPAIR BILL FROM YOUR PAY!

BUT, MR. TILLER, YOU WERE THE ONE WHO USED IT LAST!

I WAS? BY GOLLY, COME TO THINK OF IT, YOU'RE RIGHT!

OKAY, I'LL PAY FOR IT MYSELF THIS TIME, BUT NEXT TIME YOU WON'T GET OFF SO EASY!

he was still safe and sound. That night I built a house for him made of screen. From then on he lived on lettuce and a few heads of wheat. I wasn't home when he died, two weeks from then, but my dog, Happy, made a good grave for him. I hope to find more wild life in the future, but I will have sense enough not to keep them captive, but just tame them.

Arthur Atkinson.
Box 1, Valparaiso, Sask.

I live on a farm and we had three geese. They always slept in between the barns. One night in the fall we heard the dog bark and bark. Next morning one of the geese was gone. That night the other goose and gander came up to the back door and would have come right into the house if we had let them. Mother said they were frightened, so she and I picked them up and put them in the chicken coop. After a week all we had to do was call them and they would come to the coop. Later I found the feathers of the other goose where the coyote had taken her to eat.

Harvey Sterling.
Westlock, Alberta.

One day last week I stood on the doorstep watching a hen carry a rubber sealer ring in her mouth. I wondered what she was going to do with it. She kept swallowing until she got it down. I never would have believed she would eat it if I hadn't seen her.

Morris Beattie.
New Osgoode, Sask.

We had an orphan pig and it was quite a large one, but it was quite a bad pig, too. It used to get the screen door open and come right in the house no matter what hour of the night it was. Because it was raised on a bottle. We had to keep it in the house when it was small.

Lloyd De Bruin.
Birch River, Man.

One of our neighbors had a little pet barn owl. They found it lying on the ground by the house. It was alive but seemed hurt. They took it in the house and put it in a box. It soon got hungry and they fed it bread crumbs and insects. He got so tame he would fly around the house and light on anyone's shoulder. We called him "Pretty Boy" because he had such long eye lashes. He would fly around all day outside and in. At night he used to crawl into the lamp globe. I don't know why he chose such a funny place to spend the night. At last he grew so big he stuck in the globe and broke it getting out. He got an awful scare when it fell and broke with him inside it. That day he flew away and never came back.

Joyce Durling.
Westlock, Alberta.

Place Your Order For BALER TWINE



NEW HOLLAND, the name for trouble-free Baler twine bears the Testing Seal of approval... assuring uniformity, strength and weight. Let us quote you on your twine needs — NOW!

Simply fill in your name and address and mail coupon to Nance Co. Ltd., Red Deer, Alta.

Name _____

Address _____

Mail direct to —

NANCE CO. LTD.

DISTRIBUTORS — RED DEER, Alta.

Do you need

A BULL ON YOUR FARM?
BREEDING STOCK?
A TEAM OF HORSES?

FIL has helped to finance thousands of Canadian farmers in such purchases. See your B of M manager about a Farm Improvement Loan — soon... It may mean extra profit for you this year — and many more.



**BANK OF
MONTREAL**
Canada's First Bank

WORKING WITH CANADIANS IN EVERY WALK OF LIFE SINCE 1817



MOVING? Be sure and send us BOTH your OLD and NEW address.

THE GRAIN LOADER

WITH THE

Boardinghouse Reach



*It's something
to see...*

... the way this versatile ROBIN Portable Grain Loader, Series "400", reaches 'way out to wherever you need it. The jack-knife action of both A-frames on long tracks easily positions loader, allowing high reach over bins, or over truck boxes and high bin doors.

Hanger cage carries engine level at any angle of loader, with no variation of belt tension.

Telescopic drive shaft allows engine cage to be positioned along auger tube out of the way of A-frames when extra long reach is required at either end of loader.

Other features include: — Cut steel reduction gears, sealed in grease; winch for height adjustment; pull-thrust Timken bearing at top of auger; equipped with standard road wheels and Timken bearing; new implement tires if desired.

Any way you look at it, the ROBIN is a superior loader. No wonder more and more farmers insist on ROBIN.

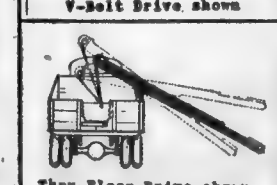
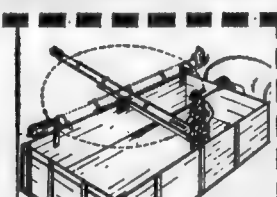
*If you want THE BEST
... it must be "ROBIN"*

Check These Features of ---

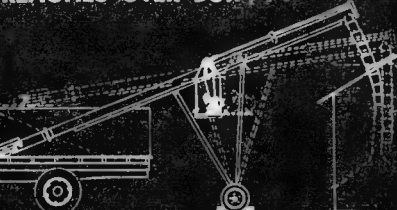
"ROBIN" TRUCK GRAIN LOADERS SERIES "200"

- ✓ More versatility in loading over either side or rear.
- ✓ Swivel Roller for quick and easy positioning, either loading or unloading.
- ✓ Carrier Brackets for safe, out-of-the-way transporting—leave box clear.
- ✓ Choice of "Thru-Floor Drive" or "V-Belt Drive."
- ✓ Larger than average capacity tube, genuine helicoid flighting.
- ✓ Factory replacement parts quickly available when needed.
- ✓ Built for maximum long service.

DON'T BE SATISFIED WITH LESS
THAN "ROBIN" PERFORMANCE



REACHES OVER BOX



AND BIN DOORS EASILY



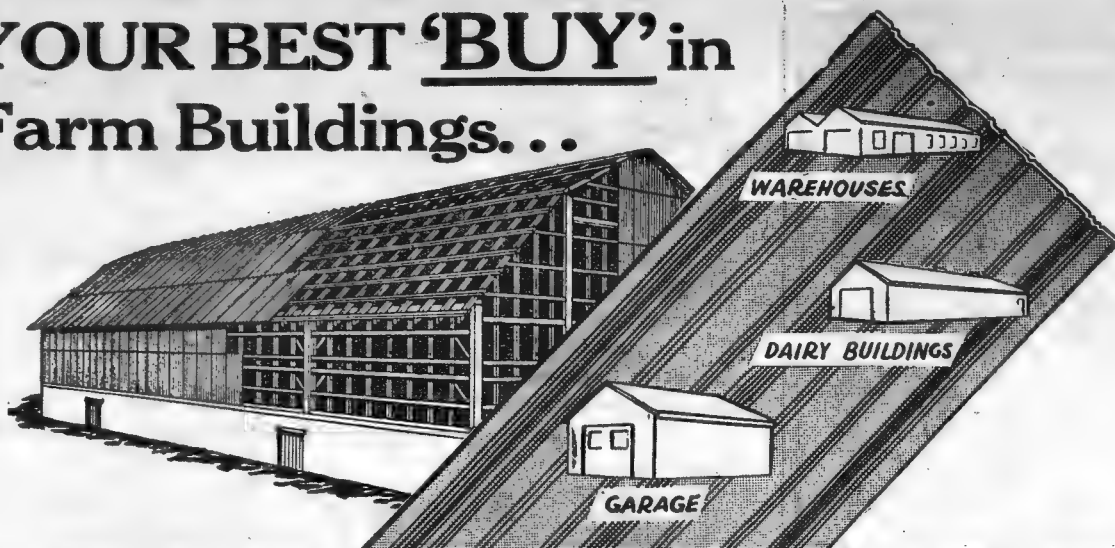
DROPPED TO HANDY TRAILING POSITION



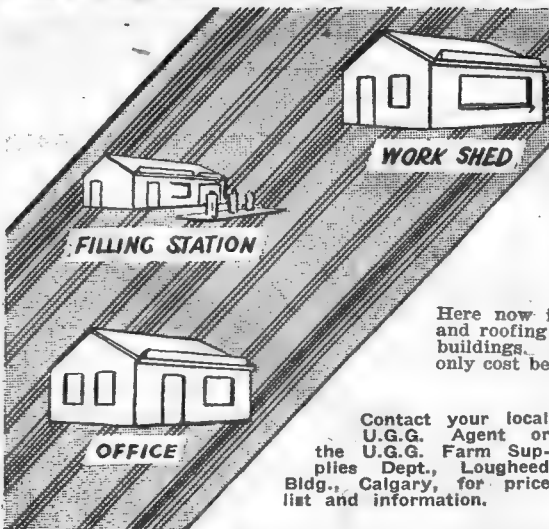
**ROBINSON MACHINE
& SUPPLY CO. LTD.**

HEAD OFFICE AND FACTORY
50th AVE. & 1st ST. S.W., ... CALGARY

YOUR BEST 'BUY' in Farm Buildings...



DOMINION ALUMINUM



Check These Outstanding Features:

- Reflects 95% of radiant heat.
- Windproof and dust-proof.
- Light, easy to transport.
- Fire resisting.
- Ideal for re-roofing.
- No rusting or rotting.
- No shrinking or warping.
- Lowest maintenance costs.
- Requires no paint.

Here now is tough, durable, lightweight Dominion ALUMINUM siding and roofing to meet farm, industrial and municipal demands for low cost buildings. When you build with Aluminum your first low cost is your only cost because it lasts for generations without painting or maintenance.

Contact your local U.G.G. Agent or the U.G.G. Farm Supplies Dept., Loughheed Bldg., Calgary, for price list and information.

UNITED GRAIN GROWERS LTD.

46 years in service to Farmer and Stockman

'I Remember...'

Long Trip

I REMEMBER when I was a lad of 10 or 11, my parents sent me from South Cooking Lake to Edmonton for groceries. It was around 35 miles one way. I used to make the trip with my dog, Curly, which was a St. Bernard. The road was just a bush trail then. I used to leave at 9:00 in the morning and get back around supper time the same night. Now they have changed the road by shortening it. It is now around 18 miles to South Cooking Lake. It is also paved. You can make the trip in about 20 minutes by bus.

H. M. Kephart.
South Cooking Lake, Alta.

Rattler in Bed

Once a long time ago at Bow Island, Alta., our house burnt down late in the afternoon. We had no place to sleep. Except on some hay left in a shed. We all huddled together for warmth the best we could for one night. The next day I thought it good to change and put in some fresh hay to sleep on that wasn't so dusty. So I took a fork and began to throw it out. All at once I heard a thud on the floor, and there a large rattler snake had been hidden for warmth in the hay. Quickly I jabbed the fork into it before it could coil up and strike. It was the end of that snake. We made other arrangements to sleep that night. Some long ago neighbors will remember this, maybe you'll write.

Mrs. Andrew Anderson.
Falun, Alta.

No Chance of a Ride

I remember well in 1922 living in British Columbia, my husband had taken a log contract.

Two of us families each with three small children, built log cabins and lived there for two years.

A creek of soft water ran close by. Every night a mother deer and little one came to drink water.

The children would feed her oats. The first town called Yahk was six miles away.

Mr. and Mrs. Ben Meister and ourselves were very friendly.

We women would take a day off once in a while and walk the track to Yahk, after having a good hotel dinner, we did our shopping.

Returning home, again, we walked the track with our bundles.

Freight trains did come for ties, pulpwood and logs, but passengers were not allowed.

No chance of thumbing a truck ride like now-a-days.

Mrs. A. Lagace.
Guy, Alta.



"Has All The ..." BEST FEATURES

... HUTCHINSON GRAIN AUGER

- Easy to Move
- Easy to Operate
- Easy to Trail
- Economical to Use

MORE LOADER FOR YOUR MONEY.



16 Feet	-----	\$147.50
21 Feet	-----	\$179.50
27 Feet	-----	\$219.00
33 Feet	-----	\$295.00

Includes: Hoist, safety chain, lock, roller bearing, drop centre wheels, engine base.

F.O.B. Calgary, Alberta or
Saskatoon, Saskatchewan

CALGARY FARM MACHINERY LTD.,
507-517 Second St. E., CALGARY, Alta.

Dear Sir:—Please send more information on the HUTCHINSON GRAIN AUGER.

NAME _____

ADDRESS _____

CALGARY FARM MACHINERY LTD.

507-517 SECOND STREET EAST CALGARY, ALBERTA

Farm and Ranch Housewife

DEVOTED TO THE INTERESTS OF THE RURAL WOMEN OF WESTERN CANADA

Aunt Sal suggests . . .

*July can be a trying month,
With heat and winds and
such;
Let's speak of hints . . . though
small they be,
I hope they'll help you much.*

A FEW months back I chided you for not rushing to the rescue of the young farm wife who wanted ideas on furnishing her living room at the lowest possible cost. Since that time you readers have done nobly by her (I've forwarded many fine letters to her). I had hoped to be able to include more of these letters in this column, but the space has a way of evaporating, so I'll just give a few short interesting quotes from Mrs. S. R. D., of Maple Creek, Sask., who sent in the grandest letter ever!

If the woodwork is good, leave it alone, as changing it would only entail extra money and work. However, enamelled in ivory, pale green or yellow it would give light and brightness to the room.

If in doubt as to how to dress the windows, choose unbleached cotton. It can be trimmed with ball trimming . . . Fish netting, too, is very cheap and comes in extra wide material. Soft wood is better enamelled . . . hard wood finished to bring out the grain. Braided rugs, knitted cushions (stuffed with chicken feathers), embroidered samplers can all be made by hand at little cost and add much to the hominess of a room.

So many readers sent in fine home-tested ideas the past month that I feel I just must pass them on to the rest of you. So how about calling this: FROM YOU TO YOU.

Mrs. F. A. of Millet, Alta., writes: "When covering coat or dress hangers use cotton instead of wool and the moths will not camp in them."

Mrs. H. F. M. of Sundre, Alta., writes: "I have canned spaghetti in with the sauce for years this way. Cook 7 cups spaghetti until tender. Fry 3 cups of diced bacon also one onion. Add to cooked spaghetti . . . also add the bacon fat, two cans of tomato soup, salt and pepper to taste. Process the jars 2 hours. This amount makes 5 pints and 2 quarts. This is much cheaper than buying it prepared at store and I've never had a jar spoil."

Mrs. L. E. G. writes: "Regarding Mrs. N. A. L.'s, Fairview, request for pine cones, we grow them here in all sizes and I'd be pleased to send her some."

Mrs. H. Young, Viewfield, Sask., writes of their experiences in raising peacocks. So those of you who have written in questions about peacock feathers and pea hen eggs, etc., had

better write Mrs. Young and ask her those questions. Be sure to enclose a stamped envelope. (It isn't often I affix a person's whole name and address but in this case I'm sure the writer does not mind.)

I have a confession to make, I've lost a letter. It was from Miss M. B., Sask., and she wished the embroidered pattern showing peacocks for chair sets, etc. - I inserted this in a daily paper for which I write and secured the offer of the help Miss M. B. wanted, but now . . . woe to me I've lost her letter. If she sees this, will she please write in to me again?

Mrs. H. A. H. of Winnipeg, Man., returned the wedding cake bulletin that I'd loaned her to help her with a wedding cake she made and decorated. I was happy to read the note attached which ran: "The copy was very helpful and the cake turned out perfectly." Hurrah! This bulletin I'm referring to came from the Canadian Home Journal magazine, Toronto, and is about the best I've seen. I think it only cost a stamped, self-addressed envelope. Even in these days of high costs, there are so many things that only cost a stamp!

Now here's a recipe that is new to me and I counted it very tasty. A new way to serve carrots for a change.

Lemon Glazed Carrots

Cook one pound whole, scraped carrots until tender in a covered skillet. Drain and add these: $\frac{1}{2}$ cup sugar combined with juice and grated rind of one lemon and 2 tbsps. butter. Heat slowly uncovered until carrots are glazed.

Bye bye for now . . . and every good wish.

Aunt Sal.



Farm Facts

By LOUISE PRICE BELL

"God Speed The Plough!" be this the prayer

To find its echo everywhere."
—Eliza Cook,

God Speed The Plough.

"When tillage begins, other arts follow. The farmers therefore are the founders of human civilization."—Daniel Webster.

"The agricultural population, says Cato, produces the bravest men, the most valiant soldiers, and a class of citizens the least given of all to evil designs." — Pilny the Elder, Natural History. "Wisdom, Power and Goodness meet

In the Bounteous field of wheat."
—Hannah F. Gould, *The Wheat-field.*

"Commerce may well be termed the younger sister for, in all emergencies she looks to agriculture both for defense and supply.—C. C. Colton.

Jam made this Way is Delicious... Firm... Sparkling



Turns Out *Right* WITH
Certo

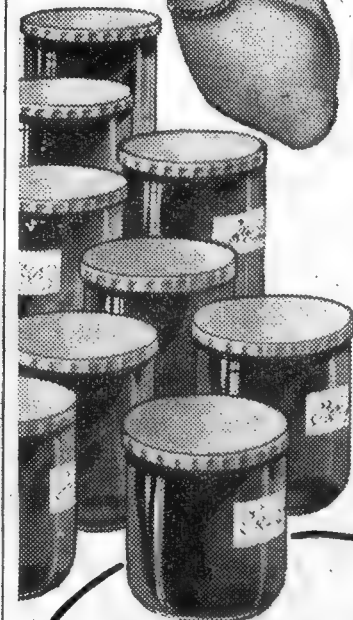
QUICK, EASY

SHORT-BOIL RECIPES
GIVE YOU 50% MORE
FROM YOUR FRUIT

Making jams and jellies with Certo is so quick . . . so sure. A batch takes only 15 minutes from the time your fruit is prepared. It's the easy way, too, because Certo is a highly concentrated fruit pectin product—the natural jelling substance extracted from fruit.

With Certo you don't boil down your juice . . . you use only a ONE-MINUTE full, rolling boil. So you average 50% more jam or jelly and keep the lovely fresh-fruit taste and color. There's a separate Certo recipe for each kind of fruit . . . no guesswork! Follow the simple directions carefully and your success is sure.

You'll be
proud to say
"I MADE IT"



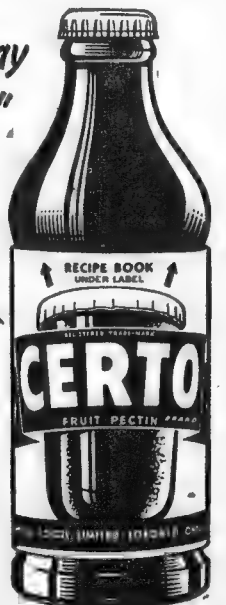
Take your Pick

LIQUID OR CRYSTALS

Certo in either form gives
equally good results



A Product
of General Foods



RECIPE BOOKLET under the label of every bottle and in every package. Each type has special recipes which must be followed. They are not interchangeable.

Let's Ask Aunt Sal...

THIS past month there were three questions that one could readily name the favorite trio. They were (1) recipe for Air Buns, (2) recipe for canned peppers, (3) address of a place where one could buy Mrs. Beaton's cookbook. So, before we slip-up on these, we'll give them top billing.

Air Buns — This sounded much simpler than previous recipes. It states the yeast called for should be cake yeast, which is almost unobtainable. Some of you say you've had poor luck when using the quick yeast, while others liked it... so it goes.

This recipe was sent in by Mrs. F. R. B., Ft. Saskatchewan, Alberta: Soak a yeast cake in $\frac{1}{2}$ cup water, add 2 cups water and $\frac{3}{4}$ cup sugar. Add enough flour to make a soft batter. Let rise about 3 hrs. When light, add 3 cups water, 1 tsp. salt, 1 cup melted lard and mix stiff. Let rise until light in warm place. Then put in cool place. Bake when needed. Make into

buns and let rise about 2 hrs. When baked brush with milk or butter. Place about 2 inches apart in pans.

Canned Peppers (either red or green)

Remove the seed pod but do not peel vegetable. Boil 3 min. and pack tightly into clean jars. Fill to within $\frac{1}{2}$ inch of top with water in which they were pre-cooked or boiling water. Add one tsp. of salt to each quart jar if desired. Put on cap, screwing the band tight. Process in hot bath for two hours or 35 minutes (either pints or quarts) with ten-pound pressure in pressure cooker.

Q: Where can I buy a copy of Mrs. Beaton's Cookbook?

A: Mrs. G. H. of Strome, Alberta, writes in telling us that she bought her copy at A. H. Esch & Co., 10154 - 102nd St., Edmonton, Alta. She did not state the price.

Q: I have tried for years to buy the item listed below: (1) Old-style metal hair curlers

shaped like a safety pin. They measure about 3 inches long and have this writing on them "West Electric hair curler... made in Canada." Mrs. W. M., Lethbridge, Alta.

A: How about it, readers? Any of you hoarding these and would like to sell them?

Q: Rust stains from pins have been left on unbleached cloth... have used salts of lemon but will not yield. (Mrs. F. A.)

A: Add a tsp. of borax or sodium carbonate to a pint of peroxide. Apply with a medicine dropper. Rinse at once with water.

Q: I would very much like an instruction book for making luncheon cloth worked in cross-stitch in rose pattern. (Mrs. H. F. Slater, 675 Kildonan Drive, Winnipeg.)

A: I hope that Mrs. S. does not mind that I've attached her full name and address so anyone who wishes to help her can write her directly.

Q: I would like a recipe for pickled walnuts. I think that

these nuts should be best in June so this doesn't give you much time. Mrs. V. S., Ladysmith, B.C.

A: Although this question is quite seasonal and rather local, still it is nice to have a few novel recipes for special occasions, and one can always buy a few nuts and pickle them.

Canned Walnuts

Place nut meats into clean jars screwing the tops tight. Process in oven using lowest possible heat for 45 minutes (for all sizes of jars).

To Pickle the Nuts: Make this syrup: 1 cup water, 6 cups sugar and 1 cup vinegar and small cheesecloth bag of mixed spice. Boil 5 minutes; pour over nuts and process the jars for 10 minutes.

Q: What material could I use for stiffening goods in place of canvas? (Repeat.)

A: On the advice of a dress-maker I suggested Tarlatan, but stated it only came in pale blue. Now, in a letter from Mrs. R. J. D. of Winnipeg, who was formerly a theatrical designer, I learn that this material comes in a wide range of colors and can be bought in the T. Eaton store in Winnipeg. (I couldn't find it in stores west of Winnipeg.)

Q: Is there any way to take the stiffening out of men's shirt collars when the starch has been 'fused' in?

A: I don't know of any... you might ask a chemist about this.

Q: Is there some composition to apply on the back of a mirror at home?

A: This question was handled last year and I did a lot of research on it but all the specialists told me this could not be done at home. Contact your nearest glass company and they do all mirrors over for quite a modest charge.

Mashed Potato Fondant

(Requested recipe)

To 3 tblsps. hot mashed potatoes add one cup icing sugar and 2 tsps. vanilla. Mix well, then keep adding icing sugar until stiff enough to make into balls.

Dip these balls into melted chocolate and then roll in coconut. They are often named SNOWBALLS. If these are stored away for two weeks they improve in flavour and are very creamy.

Note: — All readers are invited to send in their home-making problems to Aunt Sal, in care of the Farm and Ranch Review, Calgary. If you wish a private reply enclose a stamped, self-addressed envelope. There is no charge for this service.

□ □ □

CHASING a woman is fun. The trouble begins when you finally catch her. —Walnut Bureau.

Blue Ribbon



Quality Tea—Moderately Priced
Valuable Coupons in every Box

Available in 4 sizes

15's

30's

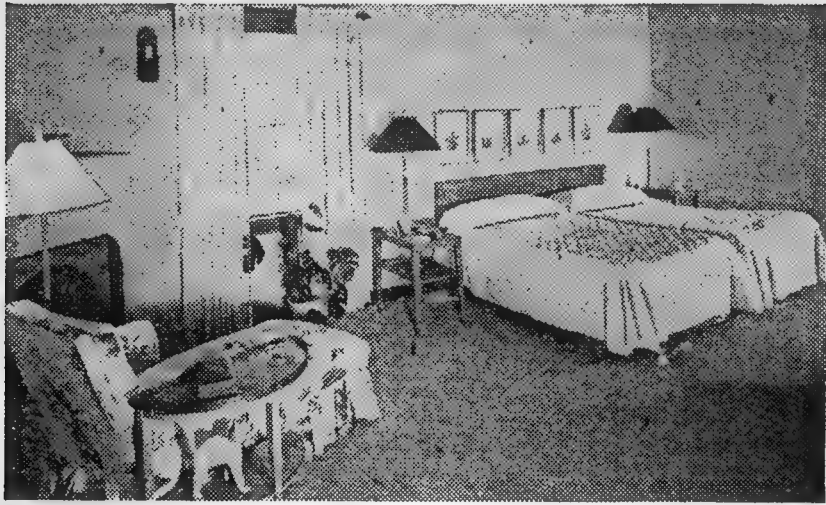
60's

125's

You can exchange the coupon enclosed with Blue Ribbon Tea, Coffee and Baking Powder for valuable merchandise. Write for your free Premium Catalogue to Dept. 5, Blue Ribbon Limited, at their nearest branch — Toronto, Winnipeg or Vancouver.

Doing some decorating? Don't be a copy-cat!

By LOUISE PRICE BELL

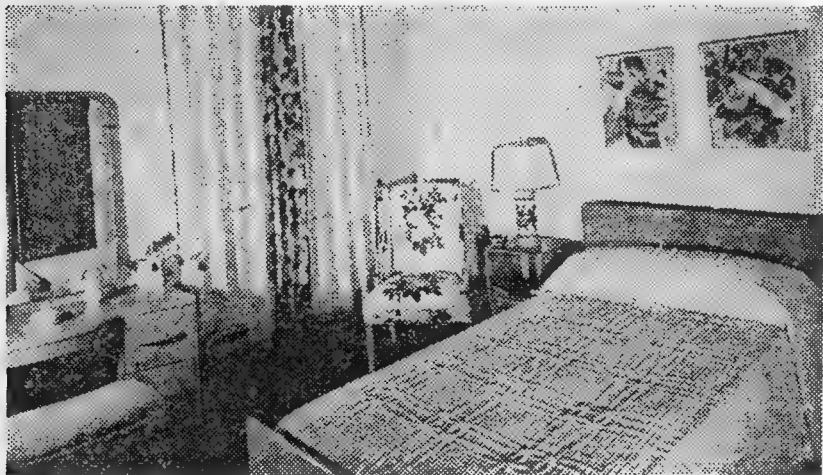


DON'T try to decorate your bedroom like Mrs. Brown did hers, or exactly like one you saw in a store window. Instead use the colors you like, the style of furniture that you and your husband prefer to any other kind. Hang the type of pictures that you will both enjoy, make curtains of material that not only is attractive to you but falls within your budget. Sometimes, extremely inexpensive curtains are more effective than those that cost twice as much. Not long ago, I saw some sunshine-yellow curtains in a bedroom and they made the room appear to be filled with sunshine even on the darkest day. The material was very sheer and when I asked the homemaker what it was she told me that it

was nothing but the best grade of cheesecloth! Theatrical gauze is another very inexpensive curtain material that is effective.

Very often curtains may be trimmed with contrasting materials that have been picked up on remnant counters and yet will add just the right amount of color to that part of the room where windows hold forth. Don't be afraid, either, to combine strips and floral patterns; they get along very well if the colors are the same.

Study the bedrooms shown; they are simple but "different"; and show plainer than words that any homemaker can create simple decorative effects with her home-sewing machine, a few remnants and some ideas, and time of her own.



The Dishpan Philosopher

WHEN worries clutter up my day "this too shall pass" I always say. For one thing very sure I know — the day that comes will also go. Tomorrow, or next week, the things from which today's discomfort springs will seem so trivial that I'll find they never even cross my mind. I only wish I could arrange that pleasant things need never change. But in the course of time they too must pass away beyond our view. The nice things, though, leave many a thought to cheer along a hum-drum lot. It's really just when things go wrong "this too shall pass" helps one along.

"This too shall pass" — none knows just who first coined the phrase so starkly true. An ancient Indian king, some say! At least I'm glad it came my way. It builds a little bridge for me to hours from present worries free.

FANCY FARE!



Luscious Butterfly Buns

Treats like these come easy now—with speedy new DRY Yeast

If you bake at home—your yeast problems are ended! Never again find yourself out of yeast because it spoils so quickly. Never again worry if your yeast is fresh enough. This new fast-acting Dry Yeast keeps full strength in the cupboard—right till the moment you need it. No refrigeration needed!

It's the new Fleischmann's Fast Rising Dry Yeast! The modern form of Fleischmann's Yeast, relied on by three generations of Canadian women. No change in your recipes—just substitute one package of Fleischmann's new Dry Yeast for each cake of old-style yeast. Order a month's supply of Fleischmann's Fast Rising Dry Yeast.

BUTTERFLY BUNS

(Makes 20 Buns)

Scald

- ¾ cup milk
- ½ cup granulated sugar
- 1½ teaspoons salt
- ¼ cup shortening

Remove from heat and cool to lukewarm.

In the meantime, measure into a large bowl

- ½ cup lukewarm water
- 1 teaspoon granulated sugar

and stir until sugar is dissolved.

Sprinkle with contents of

- 1 envelope Fleischmann's Fast Rising Dry Yeast

Let stand 10 minutes, THEN stir well;

stir in cooled milk mixture and

- 1 well-beaten egg

Stir in

- 2 cups once-sifted bread flour and beat until smooth; work in 2½ cups once-sifted bread flour

Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set dough in warm place, free from draught and let rise until doubled in bulk. While dough is rising, combine

- ½ cup brown sugar (lightly pressed down)
- 1½ teaspoons ground cinnamon
- ½ cup washed and dried seedless raisins
- ¼ cup chopped candied peels

Punch down dough and divide into 2 equal portions; form into smooth balls. Roll each

piece into an oblong 24 inches long and 7½ inches wide; loosen dough.

Spread each oblong with

- 2 tablespoons soft butter or margarine

and sprinkle with the raisin mixture. Beginning at the long edges, roll each side up to the centre, jelly-roll fashion. Flatten slightly and cut each strip crosswise into 10 pieces. Using a lightly-floured handle of a knife, make a deep crease in the centre of each bun, parallel to the cut sides. Place, well apart, on greased cookie sheets. Grease tops. Cover and let rise until doubled in bulk. Bake in moderately hot oven, 375°, about 18 minutes. If desired, cool and spread with confectioners' icing.





A WONDERFUL
Quick Energy
FOOD

GOOD SO MANY WAYS!

ROGERS'
GOLDEN
SYRUP

BEST for
BAKING

True baking success is yours with Vitamin "D" Increased ALPHA Milk. Keep several tins handy on your shelves at all times.



BE HAPPY — BE HEALTHY

Send for our complete list of items available by mail. Natural health foods, diet supplements, juice extractors, food blenders, etc. Also health books including Graeford Hauser's best seller. Write **HEALTHFUL FOODS LTD.**

1406 - 4th St. West, CALGARY, Alberta

Let children enjoy snacks!

By LOUISE PRICE BELL



YOUNGSTERS love to go into the kitchen and whip up a "yummy" chocolate milk-shake, a peanut-butter and jam sandwich . . . or some other favorite. Wise mothers allow this because such acts are a true part of the fun of home and family and the children whose mothers are afraid the kitchen will get a bit 'messed up' miss a great deal of fun.

Why not plan to keep on hand a jar of home-made chocolate syrup so that the children can make their shakes in a jiffy? There's always milk in a family refrigerator and with the syrup on hand all that needs to be done is stir two tablespoons of the syrup into a glass of milk. For what the children call "super-doooper" milk shakes, a

scoop of ice cream may be added and on a hot day, could anything taste better, or be more nourishing and satisfying? In case you haven't a good recipe for a chocolate syrup to be used for shakes (and also for a sauce over ice cream and puddings) here's one that has been tested for you.

Chocolate Syrup

3 squares unsweetened chocolate
2/3 cup water
1/2 cup sugar
1/2 cup corn syrup
1/2 teaspoon vanilla

Put chocolate and water in pan and cook over low heat until thick and well blended, then add sugar and syrup, bring to a boil for four minutes, stirring. Cool and store in refrigerator.

Country Diary

JULY is the month that commemorates the birth of Julius Caesar, and was named by himself for himself.

As July advances the prairie wears its heaviest dress, a deep green which is now woven and trimmed with color. Leaves have grown and branch and tip have spread their utmost. Wheat is turning to pale golden,

oats to ash-blond, barley remains a silvery green. Here and there in the patchwork are bits of yellow clover and purple alfalfa in the dairyman's pasture, a veritable Eden for the velvety bumbling bees.

Sometime in July comes a lull in the farming world when the big rush of seeding is over and summer-fallow is out of the way; an interlude between the heading of the grain and the not so distant harvest, a short period when the farmer feels he can relax for a couple of weeks, and in this year's case forget the recent misery of spring harvest and its ravaging confusion of mice. He likes to take his family to the city or the lake for a well-deserved holiday; and to make plans for taking in the agricultural fairs and picnics and also doing some long-promised visiting. Possibly the young folks see the opportunity for marrying and honeymooning. But there is never a total release from work on the farm. It

is "never done" as the old adage refers to the distaff side. Though, of course, the necessary chores can be done at leisure without the wrack of time pressure. Harvesting machinery must be overhauled in readiness for the annual job, and on a good many farms [belonging to the wise men] there is still the milking to be done twice daily, and eggs gathered and packed with special care at this time.

There are people who have to enjoy most of their summer at second-hand. They are not out in it day after day, and working inside walls they don't notice its passing. If one week on the calendar is different from any other week, it will only occur to them by the varying degrees of pressure under which they work. These people would welcome the chance to go berry-picking and get a real tan at the same time. The famous Isaac Newton once said of the strawberry, "Doubtless God could have made a better berry, but doubtless He never did." He was speaking of the cultivated berry, grown under nets, but had he tasted our Alberta wild variety he might have modified his opinion, for the little native, growing half-hidden in wayside grass and on the edge of ditches has a rich, sweet, full flavour unknown to the cultivated berry. We know well where to search in the sheltered spots spared from the plough, and springing up among the stumps of the chopped-out poplar bluffs, deep red raspberries are ripening in the hot July sun.

In July the floral ballet in the garden flashes its grace and brilliance, petunias, snapdragons, hollyhocks and a dozen more — a pleasure and delight to behold, and in daily use to express sympathy, love, gratitude.

MUSTARD
IS THE

Flavour Secret
OF THIS DELICIOUS
Mayonnaise Dressing

Into the well-beaten yolks of 2 eggs stir:

2 teaspoons Keen's Mustard
1 teaspoon salt
1 teaspoon powdered sugar
2 tablespoons lemon juice
1 1/2 to 2 cups salad oil

Add oil gradually while beating. If mixture thickens too quickly, add little more lemon juice then remainder of oil.

For free recipe booklet, write to Reckitt & Colman (Canada) Ltd., Station T, Montreal.

K46H

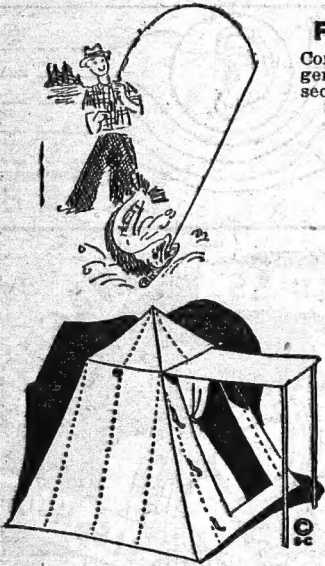
Keen's
D.S.F.
MUSTARD

"SALADA"
ORANGE PEKOE

Canada's
Quality Tea

WEEK THESE BUYS!

IN FISHING and CAMPING EQUIPMENT



FISHERMEN'S SPECIAL

Combination fly and casting rod. Kit contains genuine Japanese split bamboo fly rod — 4 section or converts to a two-piece casting rod also includes 12 real good flies and nylon leader. Packed in hinged case of Powlina wood. You'll agree that this is a real buy!

Ribtor Special

12.95

BRAND NEW TENTS

PUP TENTS

Order now for Vacation trips ahead — Healthful and enjoyable for young and old.

Water-proof pup tents — with poles, pegs and guy ropes. Approx. size 5'x7' - 3 1/2' high.

Ribtor Special

7.50

SCOUT TENTS

Water-proof duck — complete with poles and pegs. 5'x6' with 2' wall — stands 5' high.

Ribtor Special

\$14.95

TOURIST TENTS

Special waterproof duck — complete with storm door — Mosquito door — rear ventilator and waterproof floor, sewn in. Quick to erect. Complete with specially designed iron rods and wood poles and pegs. Very compact for carrying.

Special

\$47.95

EMPIRE WALL TENTS

White Duck — well made — less poles and pegs. 8'x10'x2' wall — \$29.95 Larger size wall tents, tents, marquee tents etc. for every need — 8'x10'x3' wall — \$34.95 In stock for quick delivery. 10'x12'x3' wall — \$43.95

AIR MATTRESSES

THE CAMPER — for camping or for on the beach, or as a float on the lake. Built in attached pillow. Easily carried. Special

\$11.95

THE WOODSMAN — Multitube rigid construction. Full size. Sea foam green or marine blue colors. Comfortable when sleeping directly on the ground or fits regular size cots and bunks.

\$13.95

SLEEPING ROBES

Woods' snug robes, with pillow attached. Wool insulated. 1/2 zipper. Special

\$12.95

WOODS' Wool Warm Robes—

Very popular, comfortable, full zipper. Special

\$21.95

Woods' Seirra Robes—

Down filled. Weigh only 7 lbs., approx.

74" — \$38.00 84" — \$42.00

Woods' 3-Star Eiderdown Robes—

Snap Fasteners.

78" x 84" — \$92.50 90" x 90" — \$105.00

Check these Buys in Aluminum Sheeting!

FLAT ALUMINUM ROLLED IN COILS

Aluminum the wonder metal of many uses — will not rust or rot. Never needs painting or upkeep. Aluminum keeps building cooler in summer and warmer in winter!

ALUMINUM RIDGE CAP

5" apron on both sides. Per foot

ALUMINUM DRIP STARTER

5" apron on roof. Per foot

ALUMINUM NAILS

(with sealproof "Neoprene" washers.) 1 lb. for each 125 sq. ft. Per lb.

26 gauge - 30" wide — 100 lb. roll covers approximately 460 sq. ft. **\$54.00**

Per 100 lbs. **.35**

Per lineal ft. **.48c**

24 gauge - 30" wide — 100 lb. roll covers approximately 420 sq. ft. **\$51.50**

Per 100 lbs. **.38**

Per lineal ft. **.48c**

48c

33c

\$1.70

Hundreds of other bargains for Shop, Farm and Home.

ORDER NOW! When ordering please remit full cash or \$3.00 deposit — shipped collect. Money-back guarantee.

RIBTOR

607 - 2nd Street East

CALGARY, ALTA.

"THE BEST ADDRESS IN THE WEST FOR VALUE"

ALBERTA'S LARGEST HATCHERY

STEWART'S

R.O.P. Sired CHICKS

REDUCED PRICES

Started Chicks for Immediate Delivery

All Breeds up to 12 weeks old

Farm reared on

STEWART'S POULTRY FARM

Canadian R.O.P. Sired White Leghorns, Barred Rocks, Rhode Island Reds, New Hampshires, White Rocks, Light Sussex, Leghorn-Hampshire Cross, Leghorn-White Rock Cross, Hampshire-Sussex Cross and Hampshire-Barred Rock Cross.

Ducks — Goslings & Turkey Poults

Write — Phone or Wire at once for new clearance prices.

STEWART ELECTRIC HATCHERIES

602A-12th Ave. West, CALGARY, Alta.

BE SURE THE CHICKS YOU BUY for early summer brooding inherit high egg production qualities. It is eggs that pay the feed bill and make the profit. At no extra cost you can get Tweddle High Quality chicks with lots of R.O.P. breeding back of them. Reduced prices for July. Over 4,000 R.O.P. pedigreed cockerels used in our matings this year. Also started chicks, started turkeys, older pullets, special broiler chicks, turkey poults. Catalogue. Prompt delivery.

TWEDDLE CHICK HATCHERIES LIMITED

FERGUS

ONTARIO

GEESF

Top Quality Stock From "The Goose People" EGGS - GOSLINGS - GEESF - BOOKLETS Write — ASPLEY GOOSE FARM, COMOX, B.C.



LELAND ELECTRIC MOTORS

Repairs to All Makes of Motors.

DOMESTIC WATER SYSTEMS

114 - 6th AVE. WEST,

29494

CALGARY

21898

PORTABLE SAWMILLS

THE

"LITTLE GIANT"

Sawmill turns out Lumber and Ties at Low Cost.

Everyone with Timber can own a Sawmill that quickly pays for itself.

COMPARE THESE PRICES:

Complete and Ready to Set Up

With 2 HEAD BLOCK, 12' Carriage, Less Saw **\$685.00**

3 HEAD BLOCK, 16' Carriage, Less Saw **945.00**

3 HEAD BLOCK, 20' Carriage, Less Saw **960.00**

Write or Call for Full Information on SAWMILLS, PLANERS AND EDGERS

MACHINERY DEPOT LIMITED

1029 - 10th Avenue West, CALGARY, Alta.

"Caterpillar"

YOUR

New and Used

Equipment

Headquarters

TOWNER D28—

7-foot stubble plow for 45 to 50 H.P. Tractor.

\$1,390.00

CATERPILLAR No. 11 MOTOR GRADER

Equipped with 3' backslope attachment. Has cab, scarifier, 700x20 - 10-ply tires front and 1500x24 - 8-ply tires rear. A good buy. Price—

\$4,950.00

CATERPILLAR DIESEL D2 TRACTOR

This Tractor is equipped with track roller guards and one-way brush cutter. Price—

\$3,000.00

No. 10 CATERPILLAR TRACTOR

15 H.P. (Drawbar). Price—

\$900.00

D4 — NARROW GAUGE

Equipped with Light and Electric Starting. Price—

\$5,500.00

NORDHEIMER DOZER

Complete with Hydraulic Pump and Radiator guard, for D6 wide gauge. Price—

\$1,560.00

No. 10 CATERPILLAR MOTOR GRADER

Equipped with Snow Plow and Wing Tandem Drive and Cab. Price—

\$3,600.00

2PH MOTOR COACH INDUSTRIES MOTOR GRADER

Equipped with L.H.C. Power Unit single drive, cab, lights scarifier. Price—

\$3,300.00

Clip this Coupon!

Advertising Manager, UNION TRACTOR & EQUIPMENT CO. LTD. Calgary, Alberta.

Please send me further information on Items No. , ,

NAME

ADDRESS

UT-6-52

UNION TRACTOR AND EQUIPMENT CO. LTD.

CALGARY
EDMONTON
RED DEER

GRANDE PRAIRIE
LETHBRIDGE
GRIMSHAW
and DAWSON CREEK, B.C.

BUNLAND

THE FAMILY ENTERTAINER

BY
A.W. NUGENT
THE WORLD'S
LEADING
PUZZLEMAKER

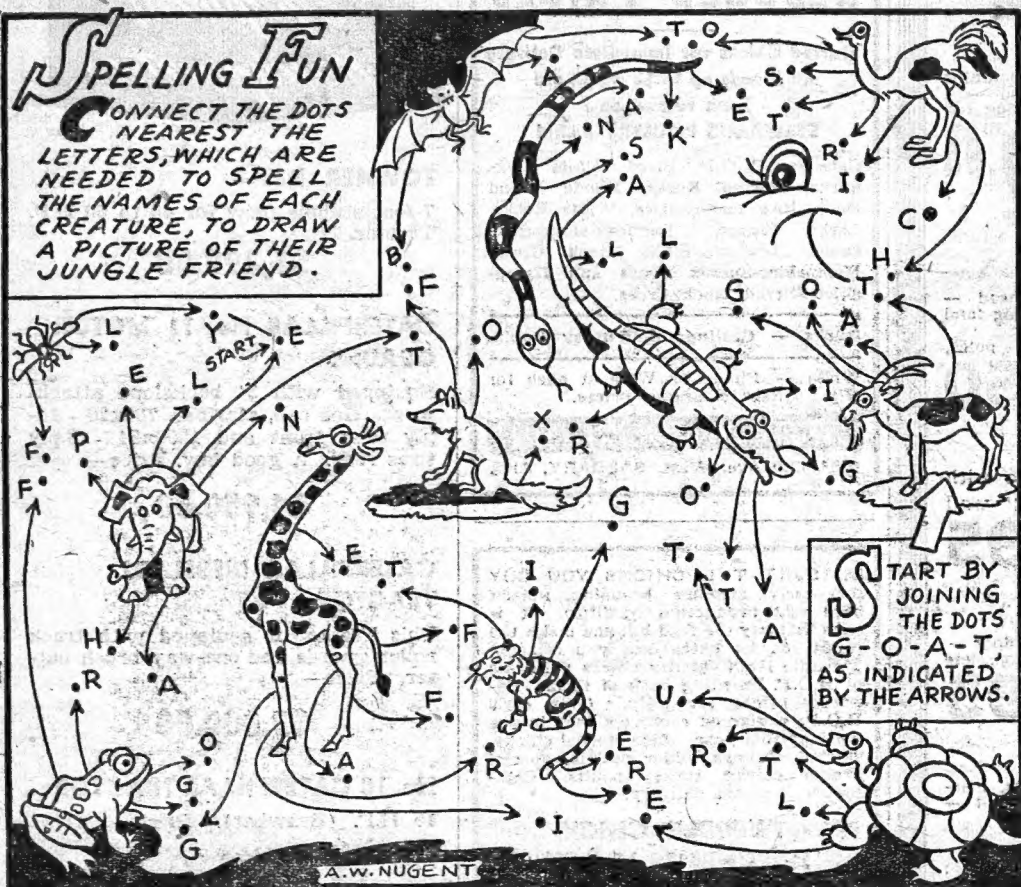
PICTURE
1 2 3 4 0 5 6 7 5 2 4 8

EACH OF THE ABOVE LETTERS IS REPRESENTED BY THE NUMBER UNDER IT. GUESS THE NAMES OF THE FIVE PICTURES AND WRITE THE CODE NUMBERS ON THE LINES AS INDICATED. ADD THEM TO SEE IF YOU ARRIVE AT THE CORRECT SOLUTION, WHICH IS 2,798.



SPELLING FUN

CONNECT THE DOTS NEAREST THE LETTERS, WHICH ARE NEEDED TO SPELL THE NAMES OF EACH CREATURE, TO DRAW A PICTURE OF THEIR JUNGLE FRIEND.



8 ROWS of 33

WRITE A NUMBER IN EACH BOX, FROM 7 TO 50 INCLUSIVE, THAT 15 INCLUDED, THAT ARRANGED IN THE 8 ROWS INDICATED, WILL TOTAL 33.

				33
				33
				33
33	33	33	33	33

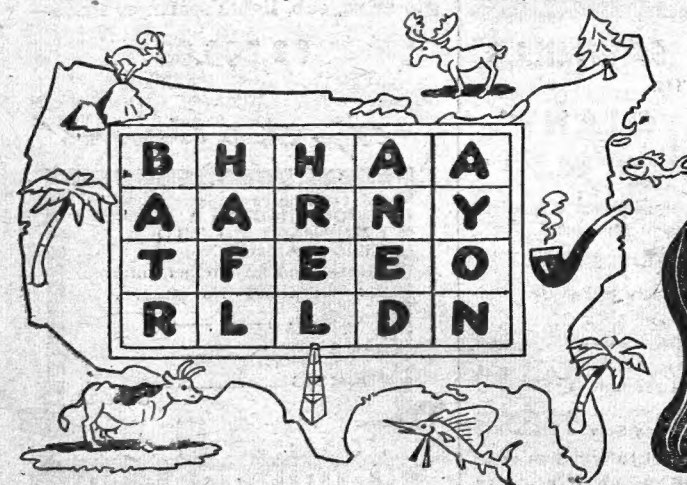
TRY TO SPELL THREE FIVE-LETTER WORDS BY USING ALL THE LETTERS IN



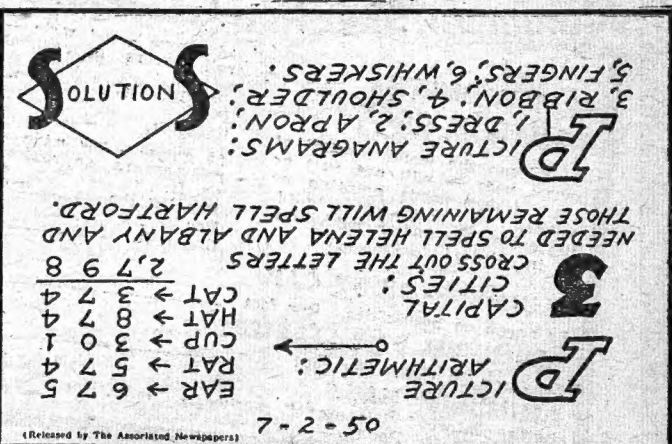
USE UP THESE 12 ALPHABETICAL NOODLES TO SPELL 3 SOUPS.



CROSS OUT THE LETTERS NEEDED TO SPELL THE CAPITAL CITIES OF MONTANA AND NEW YORK STATES. THE REMAINING LETTERS, READING ACROSS IN THE BOXES, WILL SPELL ANOTHER CAPITOL CITY IN THE UNITED STATES.

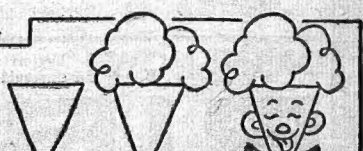


DRAW IN OUR FUNNY FACES.



RIDDLE CORNER

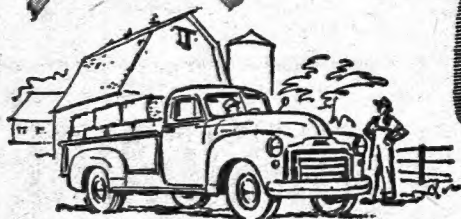
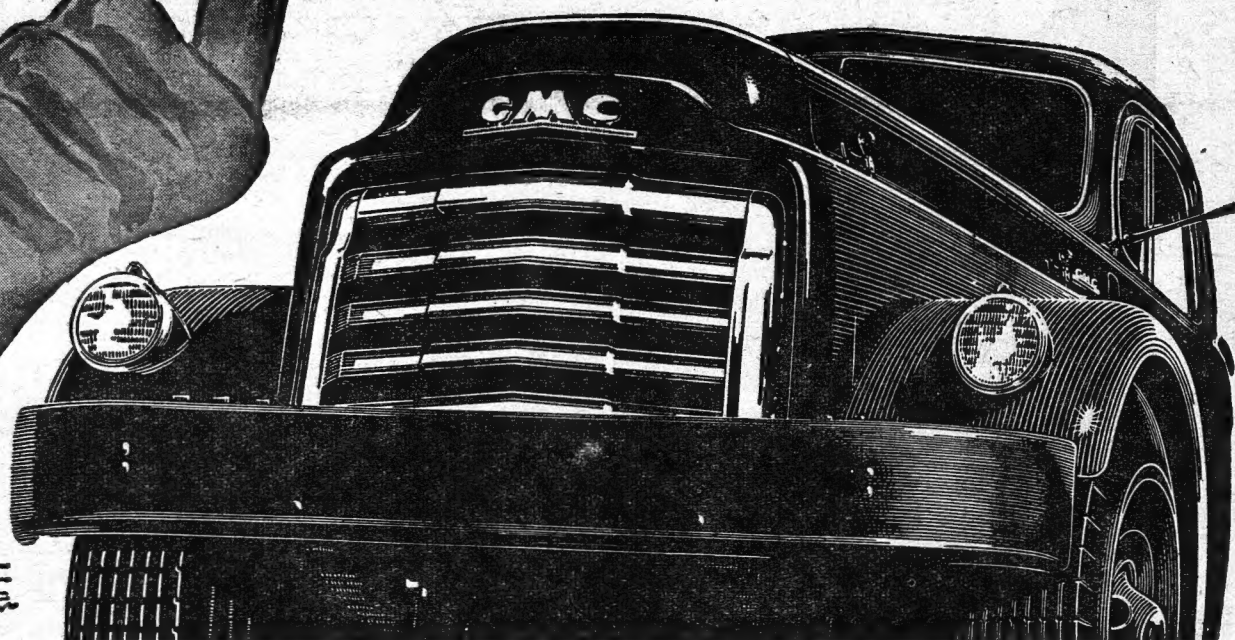
DRAW A CONE AND ADD SOME ICE CREAM, THEN A FEW LINES TO MAKE BOB BEAM.





EX LIBRIS
UNIVERSITATIS
ALBERTENSIS

***I've got a
real truck!"***



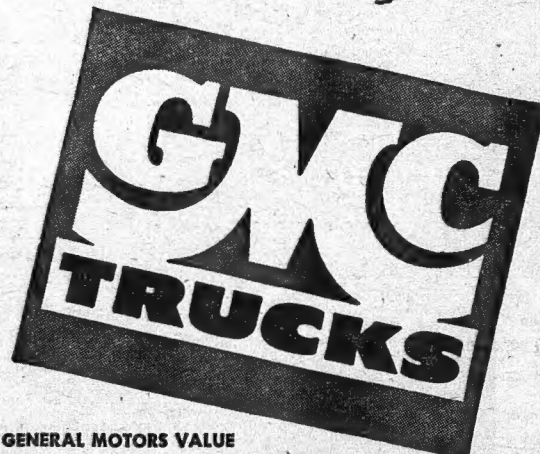
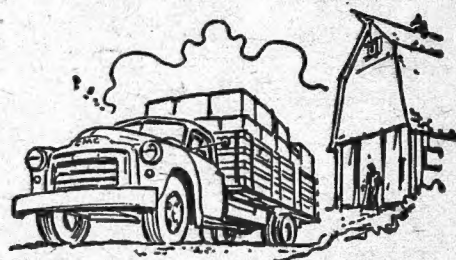
OVER THE ROAD . . . OVER THE ROUGH ... GMC can take it !

Whatever the load, whatever the job, men who really know trucks are turning more and more to GMC's for the *complete* answer to their needs. That's because GMC's are designed, built, powered and priced to be *real* trucks—to give you exactly the kind of economical performance and rugged dependability you require.

For instance, GMC gives you the widest range of truck engines in the industry—GMC valve-in-head gasoline engines from 92 to 200 H.P.—GMC exclusive two-cycle Diesels from 110 to 225 H.P.

What's more, GMC trucks combine the most modern advances in truck design with the ability to stand up to the toughest jobs. And they offer you the widest choice of models, wheelbases and GVW ratings—including two great new lines in the 19,500—45,000 GVW range.

Why not let your GMC dealer recommend a GMC truck, tractor or six-wheeler with exactly the right combination of engine, axle, transmission and frame for *your* particular job. It will be a *real* truck—in every single detail!



A GENERAL MOTORS VALUE

F52-GMC-2